

marantz®

Model HD6400W User Guide

High Definition Projection Television



Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your MARANTZ purchase is registered, you're eligible to receive all the privileges of owning a MARANTZ product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your MARANTZ warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

For Customer Use


Enter below the Serial Number which is located on the rear of the cabinet. Retain this information for future reference.


Model Number: _____

Serial Number: _____

Know these
safety symbols



 This "bolt of lightning" indicates uninsulated material within your unit which may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

 The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.


WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

SAFETY INSTRUCTIONS - Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. **Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** - All operating and use instructions should be followed.
5. **Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
6. **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A.  An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- 6B. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
 - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
 - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
7. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

11. **Power-Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
12. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
13. **Power Lines** - An outdoor antenna should be located away from power lines.
14. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Fig. below.
15. **Non-use Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
17. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
18. **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC - National Electric Code

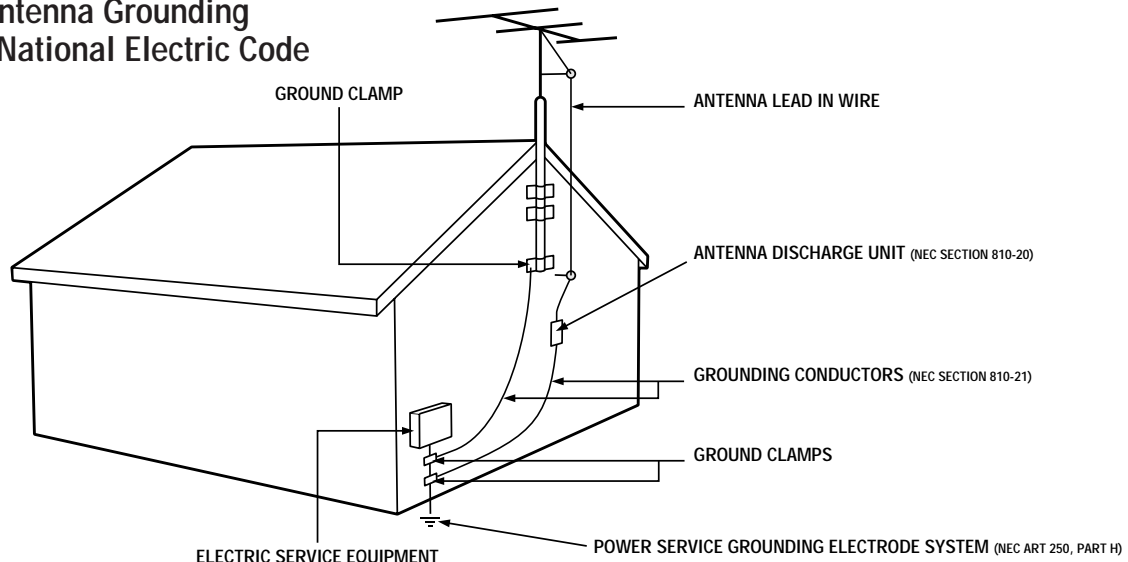


TABLE OF CONTENTS



Getting Started

Welcome/Product Registration	2
Safety/Precautions	3
Table of Contents	4
Features, Model and Cabinet Information	5



NTSC Analog On-Screen Menu Features

FIRST TIME SETUP

Automatic Programming of local NTSC Channels and other Control Features	6-7
---	-----

PICTURE MENU

Adjusting Color, Brightness, Sharpness, Tint, and Picture Controls	8
Using the Clearview Control	8
Adjusting the DPTV's Convergence Control	9

FEATURES MENU

Setting the Smart Picture Controls	10-11
Setting the DPTV for Closed Captioning	12
Setting the DPTV for Cable/Antenna Signals	13
Adding Channels in Memory (Automatically)	14
Adding Channels in Memory (Manually)	15
Setting the DPTV Clock	16
Adjusting the Channel Display Control	17
Using the Channel Label Control	18
Using Parental Control/Content Advisory:	
Code Setup/Blocking Channels	19-20
Content Advisory - Movie Ratings	21-22
Parental Guidelines	23
Blocking Options/Review Settings	24

SOUND MENU

Adjusting Bass, Treble, and Balance Sound Controls	25
Setting the DPTV for Stereo/SAP Programs	26
Using the Volume Display Control	27
Using the Automatic Volume Limiter Control	28



LCD Remote NTSC Features

Automatic Programming of local NTSC Channels and other Control Features	29
---	----



Audio/Video Connections

Auxiliary 1/2/3 Audio/Video Inputs	30-31
Audio/Video Outputs	31
S-Video Input	32
DVD (Component Input) Video Connections	33
System Audio Output Connections	34



ATSC Digital On-Screen Menu Features

DTV SETUP

Automatic Programming of Digital Channels and Tuning Program/Channel Selections	35
---	----

PICTURE MENU

Adjusting Color, Brightness, Sharpness, Tint, and Picture Controls	36
Adjusting DTV Convergence	37

SOUND MENU

Surround Sound Speaker Connections	38
Selecting the DPTV Surround Mode Control	39
Dolby Digital Internal and External Speaker System Use and Connections	39-40
Adjusting Bass and Treble Sound Controls	41
Using the Auto Volume Control	41

SPEAKERS MENU

Adjusting Speaker Menu Controls for Front/Center/Rear multi-speaker arrangements	42
Using the Test Tone Audio Signal Control	43

FEATURES MENU

Using the DPTV for ATSC Closed Captioning	44
Adding Channels in Memory (Manually)	45
Using Parental Control/Content Advisory:	
Code Setup/Blocking Channels	46-47
Content Advisory - Movie Ratings	48-49
Parental Guidelines	50
Blocking Options/Review Settings	51



LCD Remote ATSC Features

Digital/ATSC DPTV Features	52
----------------------------------	----



MONITOR On-Screen Features

Connection of VGA/SVGA/ and High Definition (HD) Component Video auxiliary equipment	53
Adjusting of DPTV Monitor Display controls (for VGA/SVGA/EXT HD devices)	54



General Information

Tips if Something Isn't Working	55
Cleaning and Care	55
Index	56
Regulatory Notices	56
Glossary of DPTV Terms	57
Factory Service Locations	58-59
Warranty	60

ATSC Certified - for full compliance with analog NTSC and all 18 digital ATSC formats as specified by the Federal Communications Commission (FCC).

High Definition Digital - with full 1920 x 1080 interlaced image resolution capability to achieve superior image performance.

64" Widescreen Display - with a super-large 64" Widescreen 16:9 display format which provides for a true home theater or cinematic experience. If a 4:3 aspect ratio picture is the primary source, it will be expanded to fill the screen.

120-Watt Amplifier - to provide up to 20 watts amplification for each of the Left/Right front, Center, Left/Right rear Surround, and Subwoofer channel speakers.

First Time Set Up - for both NTSC and ATSC channel programming to automatically preset the DPTV for available area stations.

Parental Control for "Censoring" - this feature can block out channels to keep children from watching undesirable programming. Parental Guideline and Movie Rating settings can also be used as part of the new Content Advisory Data system available with TV programming.

LCD Remote Control - universal, learn remote which controls virtually all IR devices, learns new commands as your system expands, and can be customized according to your personal preferences. Featuring a large LCD backlit touchscreen, the remote gives you easy access to all key DPTV features.

Dolby® Digital Sound - for multichannel sound reproduction at its best. Fully compatible DPTV audio system will replay a received Dolby Digital 5.1 sound source through internal system amplification, or function within a home theater sound system.



Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992-1997 Dolby Laboratories, Inc. All rights reserved.

Audio/Video Connections - for external sources and home theater equipment to provide the ultimate in flexibility. In addition to separate NTSC/ATSC antenna inputs, connections include inputs formatted for S-Video; composite video; Left/Right audio; six-channel audio (directly to internal amplifiers); External Center Channel Audio Amplifier Inputs; VGA; and High Definition component (Y Pb Pr) video - such as used with DVD players..

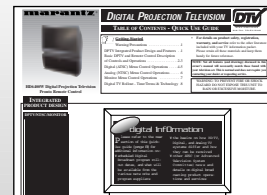
Output possibilities include Left/Right audio; SPDIF; rear speaker connections; front speaker connections; variable and amplified subwoofer speaker connections.

VGA/SVGA - 15-pin D-sub female connection for impressive multimedia display of computer source material through the DPTV's Monitor operation mode.

DPTV SET-UP AND QUICK USE GUIDE

Use the Set-Up Guide (supplied with your DPTV information packet) for details on:

- Antenna Hook-ups
- First Time Use and Control Descriptions
- Basic DPTV and Remote Operation
- DTV Program Rollout Information



As you unpack your DPTV please note that the following items have been included with your set:

- Owner's Manual and DPTV Quick Use Guide
 - Safety Tip Information
 - Factory Service Center Locations
- Warranty Registration Card
- LCD Remote Control Transmitter
 - Product Package contains dedicated Remote Control Owner's Manual information
- Batteries for Remote Control Use

Please take a few minutes to complete your registration card. The serial number for the DPTV is on the back of the product.

Refer to the back of this manual for instructions on the cleaning and care of the DPTV.

Product End-of-Use disposal

Your new digital projection television and its packaging contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts which need to be properly disposed.

Your product also uses batteries which should not be thrown away when depleted, but should be handed in and disposed of as small chemical waste.

Please find out about the local regulations on how to dispose of your old products, batteries, and packaging materials whenever you replace existing equipment.

NOTE: Not all features (and drawings) discussed in this owner's manual will necessarily match those found with your television set. This is normal and does not require you contacting your dealer or requesting service.

Because of continuous product improvements, the information mentioned in the documents accompanying your product are subject to change without notice.

FIRST TIME SETUP

First Time Setup automatically takes care of some basic control feature settings for you. Follow the steps in this section to quickly add area channel numbers into the DPTV's scan system memory, and set the DPTV for your connected signal (Antenna or Cable.) You can also set-up your TV Smart Clock feature for the first time as well.

BEGIN

1 Press the **MENU (or ok)** button on the remote or DPTV. An on-screen list of NTSC features shows on the "MAIN MENU".

2 Select **"1ST TIME SETUP"** on the DPTV's Main Menu. (Selected MENU item is highlighted in RED.)

Press the remote's **Menu** buttons to move UP/DOWN and from SIDE-TO-SIDE within the list of on-screen features.

Press **CH(annel)▲▼** and **VOLume (+) (-)** on the DPTV's local keyboard to move UP/DOWN and from SIDE-TO-SIDE within the list of on-screen features.

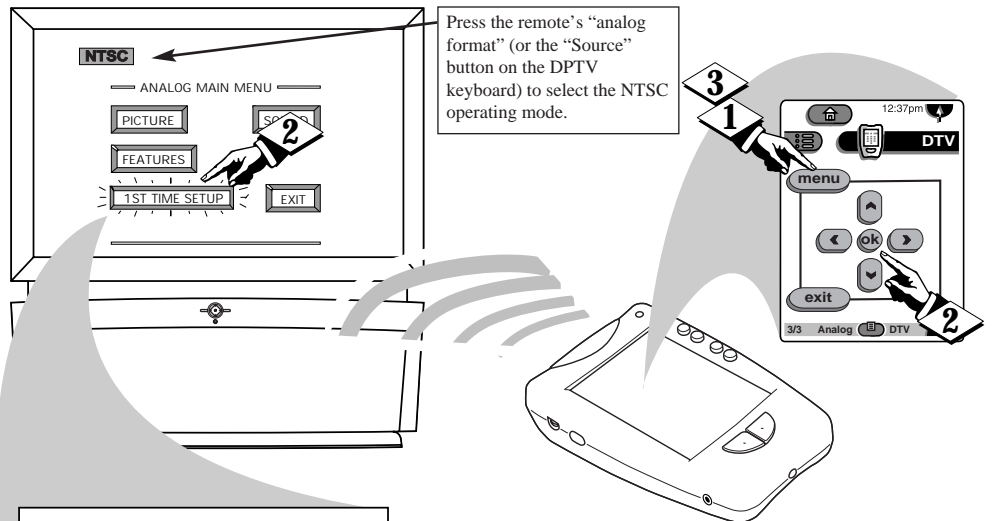
3 Press **MENU (or ok)** button on the remote or DPTV to begin SETUP.

Follow the instructions shown on the screen to guide you through the First Time Setup and use of your new DPTV.



SMART HELP

Note: The Smart Clock option **"SET TIME AUTOMATICALLY"** sets the DPTV's clock according to TV station Data Services Information (where available). With this mode the clock will automatically reset itself after power outages and update itself for Daylight Savings Time changes. The Smart Clock feature will also reset itself every time the TV is turned off. The **"SET TIME MANUALLY"** option allows you to only enter the current time of day and AM or PM settings.



The First-Time Setup provides a simple method of adjusting the most important controls for this television receiver.

Press "M" To Continue

Many of the current TV control settings will be modified by continuing with First-Time Setup.

Press STATUS to Quit
or
Press "M" to Continue

This TV is equipped with the Smart Clock feature.

This feature is designed to operate only on the analog TV antenna.

Press "M" to Continue

Please check that your analog TV antenna or cable is connected to the plug marked ANT on the TV rear input panel.

Press STATUS to Quit
or
Press "M" to Continue

* Please Wait *

System is testing for correct tuning mode for the analog TV antenna.

1

* Please Wait *

System is searching for all active channels for the analog TV antenna.

Testing channel 2 in cable mode.

The search for active channels is complete for the analog TV antenna.

17 channels were found and saved in memory

Press "M" to Continue

This TV contains a clock which can automatically be set through the SMART CLOCK feature.

The clock will be set to the time broadcast by certain TV stations.

Press "M" to Continue

Do you want to set the clock automatically?

SET TIME AUTOMATICALLY
SET TIME MANUALLY

Press "▲▼" to Select
Press "M" to Continue

See following page for details on "Set Time Manually"

Press "▲▼" to select the time zone that you live in.

ATLANTIC
EASTERN
CENTRAL
MOUNTAIN
PACIFIC
ALASKA
HAWAII

Press "M" to Continue

Do you observe Daylight Savings Time?

YES
NO

Press "▲▼" to Select
Press "M" to Continue

The time is broadcast by certain TV stations

We suggest trying PBS first

Enter the channel

X

Press "M" to Continue

Continued on Next Page



FIRST TIME SETUP

(CONTINUED)

Please remember, *SETUP* is a first-use, one-time operation and will not have to be repeated after initial adjustments are made.

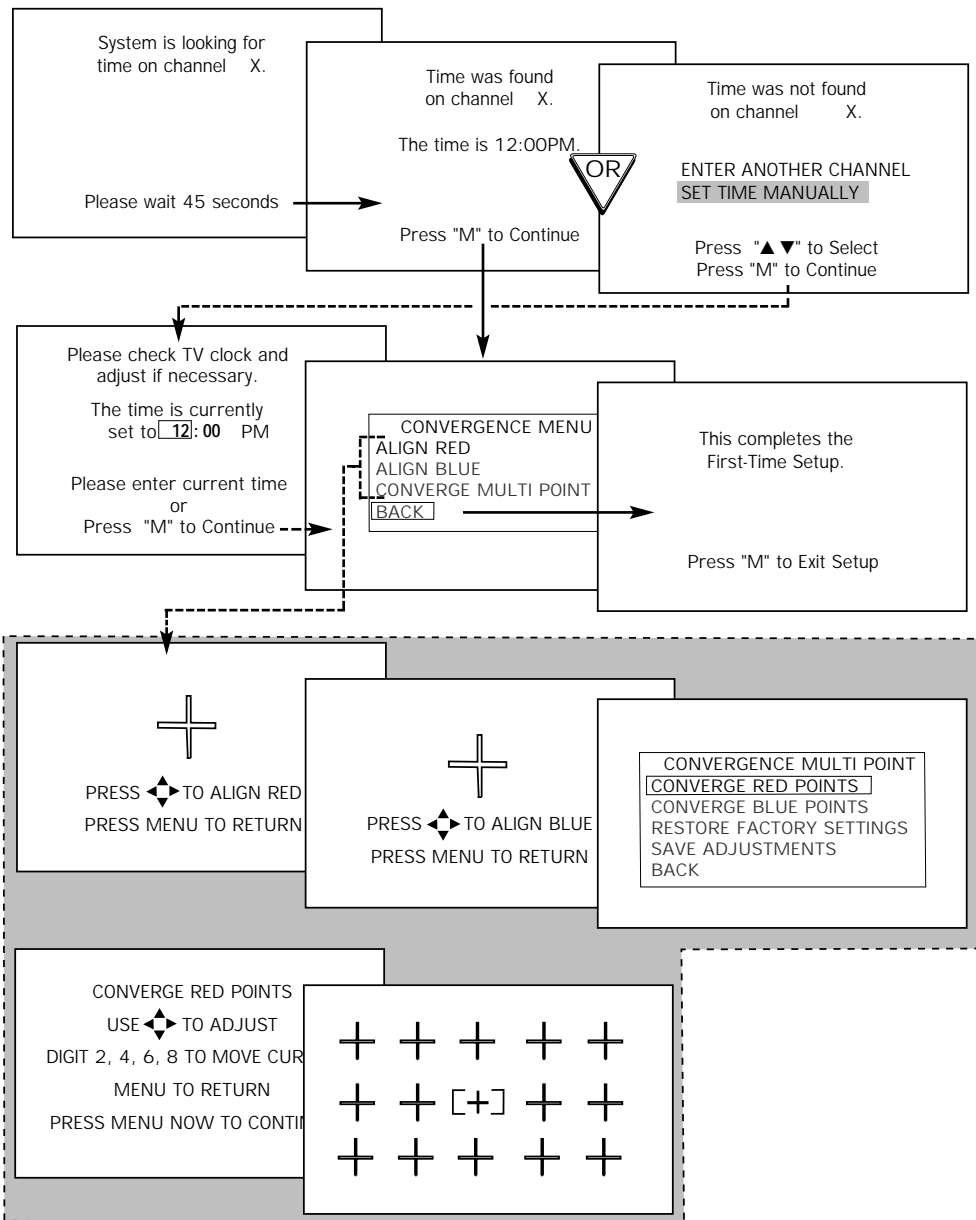
Note: Press the “exit” button on the remote or DPTV to stop the *SETUP* operation at any time.



SMART HELP

Convergence (or lining up of red and blue light paths on the TV screen) has been preset at the factory for your convenience and should not need any further adjustments. However, Convergence controls are provided (in both the First Time Setup and Picture Menu areas) in case the picture on your DPTV shows color fringing. Color fringing is when colors “bleed” or appear around the edges of on screen images and objects. If your DPTV should ever need to be adjusted for such a condition, please also refer to the DPTV’s Picture Menu Convergence control page section for further details.

Clock Note: When setting the time “manually”, you can use the remote number buttons (touchscreen 2/3) to enter the current time, or use the arrow ▲▼ buttons on the remote to select the time and the AM/PM settings.



See the “Convergence Control” Smart Help Note given on this page.



NTSC/ANALOG PICTURE MENU CONTROLS

COLOR, BRIGHTNESS, SHARPNESS, TINT, PICTURE

To adjust your DPTV color and picture controls, select a TV channel and follow the steps shown below:

BEGIN

- 1 Select **BRIGHTNESS, PICTURE, COLOR, TINT, or SHARPNESS** picture control.

With the PICTURE MENU on-screen, move the RED highlight with the MENU buttons. Then press the MENU (or ok) button.

- 2 Press the or arrow buttons to adjust the selected control.

- 3 Press the “exit” button to clear the screen.



VIDEO ENHANCEMENT

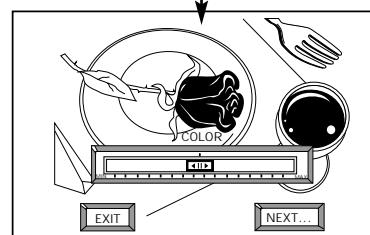
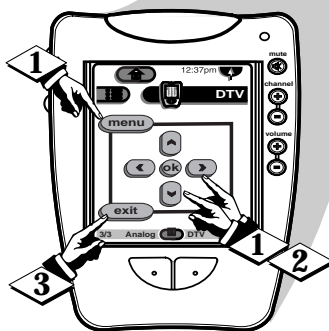
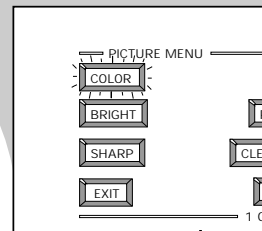
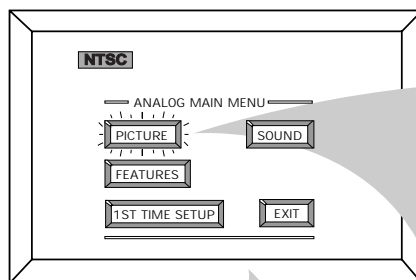


* Note: An additional Picture Menu “VIDEO ENHANCEMENT” control (similar in function and use as the Sharpness control) is also available to further improve picture intensity and detail, particularly for the playback of DVD player source material.

SMART HELP



Select the **NEXT** control and then press MENU (or ok) button on the remote to view additional controls grouped under same feature heading (Tint, Brightness, Picture, etc.).



Remember, control settings are at normal mid-range levels when the bar scale is centered.

COLOR Press (-) or (+) to add or eliminate color.

BRIGHTNESS Press (-) or (+) until dark parts of the picture show good detail.

SHARPNESS* Press (-) or (+) to improve detail in the picture.

TINT Press (-) or (+) to obtain natural skin tones.

PICTURE Press (-) or (+) until whitest parts of the picture are as bright as you prefer.

CLEARVIEW

Clearview is a sharpness feature which smoothes out background snow (or picture noise) without losing picture image detail or crispness.

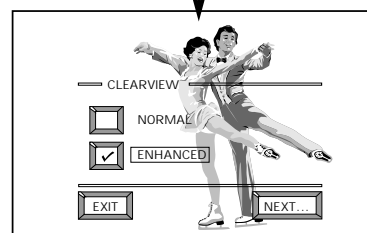
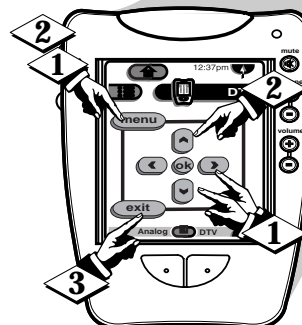
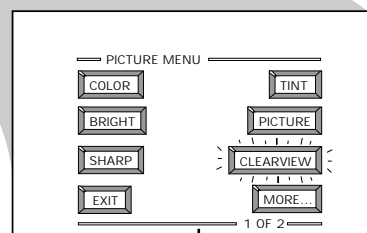
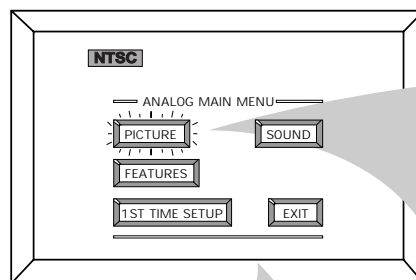
BEGIN

- 1 Select **CLEARVIEW** control.

With the PICTURE MENU on-screen, move the RED highlight with the MENU buttons. Then press the MENU (or ok) button.

- 2 Press the MENU buttons to move the RED highlight. Press the MENU button to select (✓) the ENHANCED mode.

- 3 Press the “exit” button to clear the screen.





RED/BLUE CONVERGENCE

Convergence is the correct lining up of the red and blue light paths on the DPTV screen.
NOTE: If no color fringing (see Smart Help) shows, then no Convergence adjustments are necessary.

(BEGIN)

- 1 Select CONVERGENCE control.

With PICTURE MENU (2 of 2) on-screen, move the RED highlight with the MENU buttons. Then press the MENU button.

- 2 Press the MENU buttons to select either the Red or Blue Convergence control, press the MENU button to continue.

- 3 Press the MENU buttons to move the selected red (or blue) convergence cross directly over the white cross on the DPTV screen.

The red (or blue) cross is properly adjusted when it is completely merged with the white cross. (No color appears around the edge of the white cross).

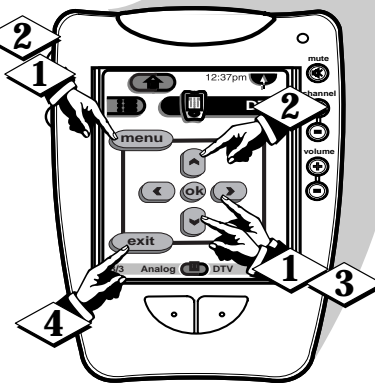
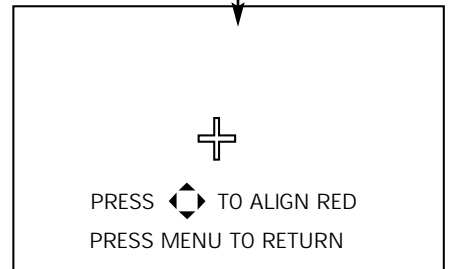
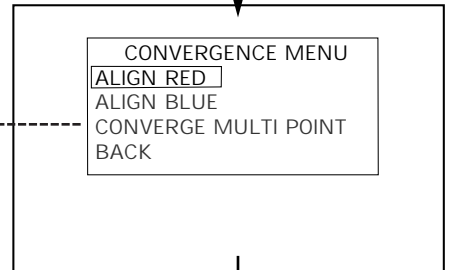
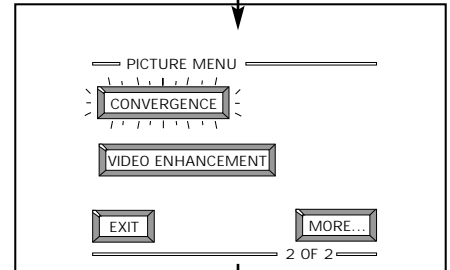
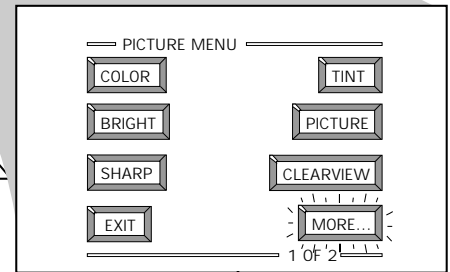
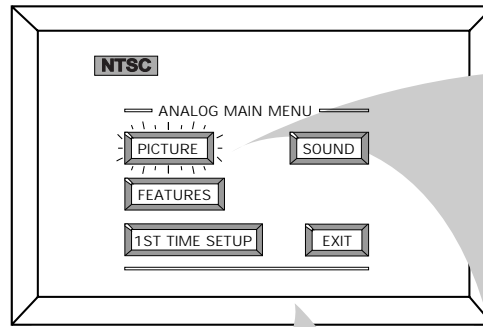
- 4 Press the "exit" button to clear the screen when convergence adjustments are complete.



SMART HELP



Remember, Convergence has been set at the factory for best viewing, but if one or more of the (red or blue) colors appear around the edges of objects (color fringing) follow the steps given in this section.

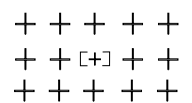


NOTE: Adjustments for "Multi-Point" on-screen color fringing can also be made as part of the DPTV's Convergence control system. Follow the on screen menu directions to select individual screen areas that can be readjusted and set for varying red/blue color fringing conditions. These multi-point settings can then be "Saved" to memory for the specific areas of the DPTV screen (or Factory Settings for convergence can be recalled and put back into place for use).

MULTI-POINT CONVERGENCE CONTROLS

CONVERGENCE MULTI POINT
 CONVERGE RED POINTS
 CONVERGE BLUE POINTS
 RESTORE FACTORY SETTINGS
 SAVE ADJUSTMENTS
 BACK

CONVERGE RED POINTS
 USE TO ADJUST
 DIGIT 2, 4, 6, 8 TO MOVE CURSOR
 MENU TO RETURN
 PRESS MENU NOW TO CONTINUE





NTSC/ANALOG FEATURE MENU CONTROLS

SMART PICTURE

With Smart Picture you can set a number of video and audio controls to your own personal preference. Once the individual controls have been adjusted to the levels you desire, use the list of Smart Picture feature category titles to quickly reselect these “personalized” settings contained within the memory of the DPTV. (See the next page for more details on the labeling options and use of Smart Picture.)

(BEGIN)

- 1 Select the SMART PICTURE control.

With the FEATURES MENU on-screen, move the RED highlight with the MENU buttons. Then press the MENU button.

- 2 Press the MENU buttons to highlight the category list for Smart Picture. Press the MENU button to select (✓) the desired title.

- 3 Press the MENU buttons to choose any of the individual controls you wish to adjust for the Smart Picture selected title. Then press the Menu (or ok) button to select the highlighted control.

- 4 Press the Menu or arrow (or Menu buttons) to adjust the selected control as needed.

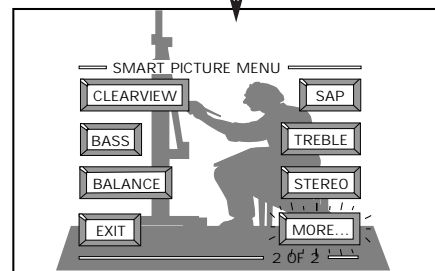
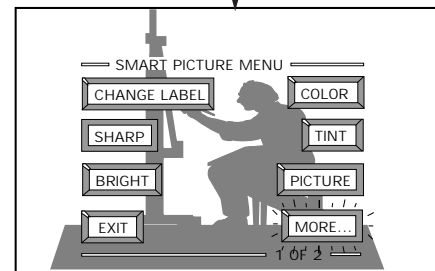
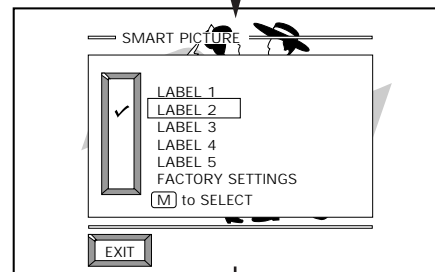
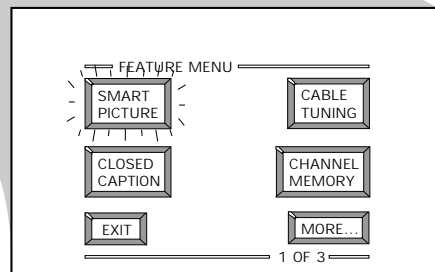
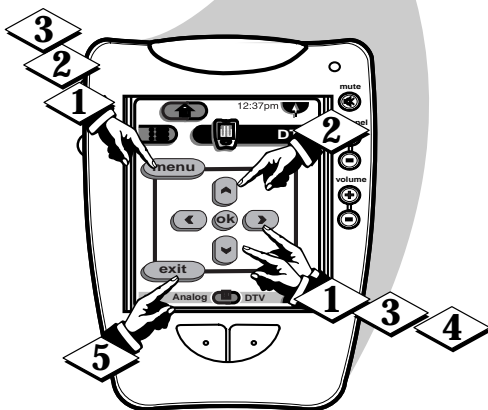
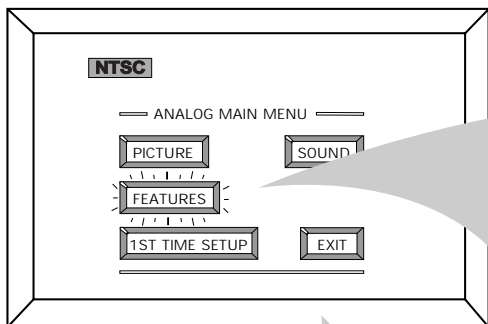
- 5 Press the “exit” button on the remote to clear the screen after you have finished with all of your Smart Picture feature control adjustments.

STOP

SMART HELP



Note: Select the “FACTORY SETTINGS” category to automatically return the DPTV to the video and audio control levels preset at the factory prior to product shipment.





SMART PICTURE

Following your initial setup adjustments (see previous page), just select the desired Smart Picture category in order to place the DPTV to the personalized set of audio and video control settings for that title.

(BEGIN)

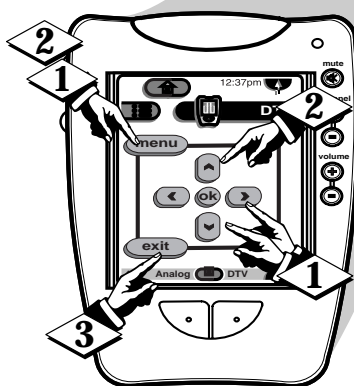
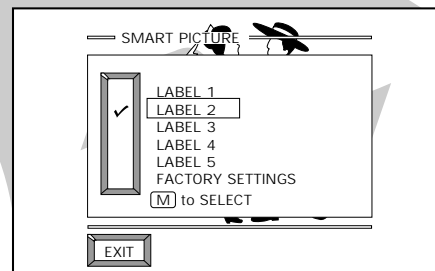
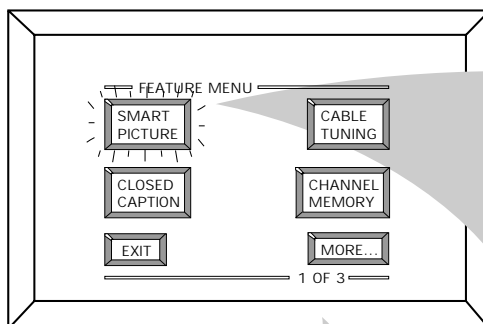
- 1 Select the **SMART PICTURE** control.

With the FEATURES MENU on-screen, move the RED highlight with the MENU buttons. Then press the MENU button.

- 2 Press the **MENU** buttons with the list of "SMART PICTURE" categories on the DPTV screen to highlight the desired category. Then press the Menu (or ok) button to select the audio and video control settings for that particular title.

- 3 Press the "exit" button on the remote to clear the screen.

STOP



CHANGE LABEL

The "CHANGE LABEL" control can be used to update the title of a SMART PICTURE setting into a name or label that may be easier for you to remember.

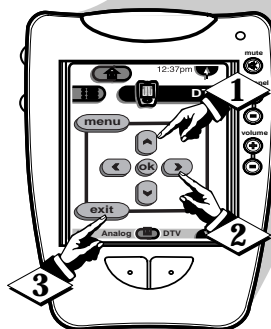
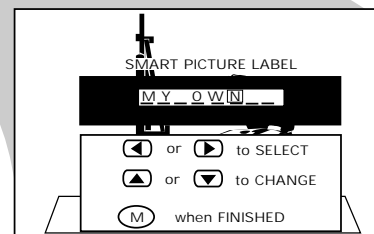
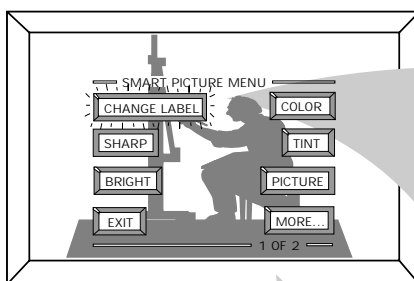
(BEGIN)

- 1 With the "SMART PICTURE LABEL" control on-screen, **press the MENU** buttons to spell out a new label or title for the selected SMART PICTURE category title.

- 2 Press the **MENU** buttons to move the red highlight to each letter space.

- 3 Press the "exit" button to clear the screen when the new label is finished.

STOP





NTSC/ANALOG FEATURE MENU CONTROLS


CLOSED CAPTION

Closed Captioning (CC) allows you to read the voice content of NTSC television programs on the DPTV screen. Designed to help the hearing impaired this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

BEGIN

- 1 Select **CLOSED CAPTIONING** control.

With the **FEATURES MENU** on-screen, move the **RED** highlight with the **MENU**  buttons. Then press the **MENU** button.

- 2 Press the **MENU**  buttons to move the **RED** highlight. Press the **MENU** button to select (✓) the desired Closed Caption mode - For Example: "ALWAYS ON" and "CAPTION 1".

CAPTION 1, 2, 3, 4:

dialogue (and descriptions) for the action on the captioned TV program shows on-screen. (See Important Note on this page.)

TEXT 1, 2, 3, 4:

often used for channel guide, schedules, or bulletin board information for CC programs.

- 3 After making your Caption mode selection, press the "exit" button to clear the screen. The selected Closed Caption mode will be active.

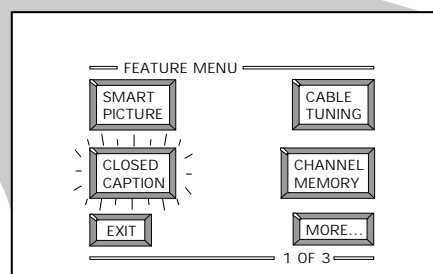
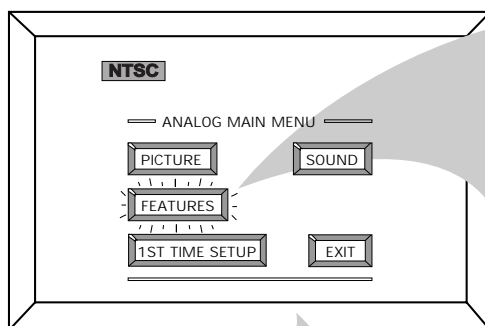
To cancel, set the Closed Captioned feature to OFF when finished.



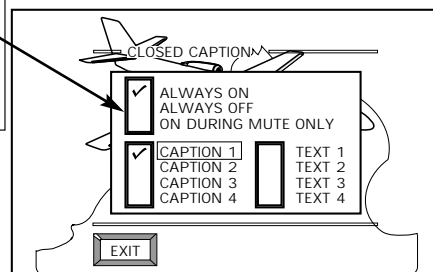
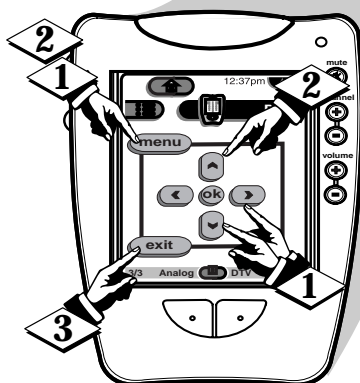
SMART HELP

Remember, broadcast stations will often use spelling abbreviations, symbols, dropouts and other grammatical shortcuts in order to keep pace with the on-screen action. These type factors vary upon the source of the captioned text material and do not indicate a need for service on the part of the DPTV.

CC **NOTE: Not all TV programs and product commercials** are made for broadcast with Closed Caption (CC) information included. Neither are all Closed Caption modes (CAPTION 1-4; or TEXT 1-4) necessarily being used by a broadcast station during the transmission of a closed caption program. Usually "CAPTION 1" is the most used mode to view captioned material. Refer to your area's TV program listings for the stations and times of Closed Caption shows.

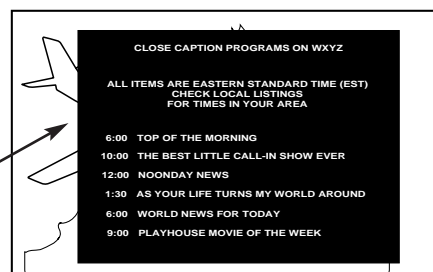


NOTE: The **ON DURING MUTE ONLY** control can be used to set the DPTV to turn the Closed Caption mode "ON" whenever the **MUTE** button on the remote is pressed.



CAPTION 1 mode
Example Screen Display

Closed Caption information will usually appear in black and white (although some broadcasters or networks may occasionally use color to highlight or draw attention to certain areas.)



FULL SCREEN TEXT
will block DPTV screen from viewing



CABLE TUNING

You need to make sure the DPTV is set to pick up either Cable TV or Antenna signals. In other words, the DPTV needs to know if you connected a Cable TV signal or a normal antenna to its ANTENNA plug.

NOTE: If you went through First Time Setup (see page 6), this task has already been completed for you.

BEGIN

1 Select CABLE CHANNEL TUNING control.

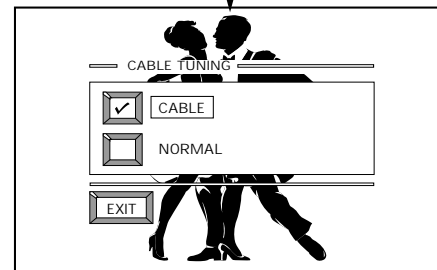
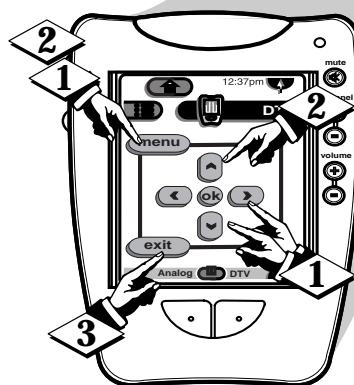
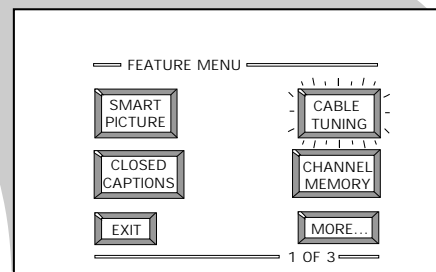
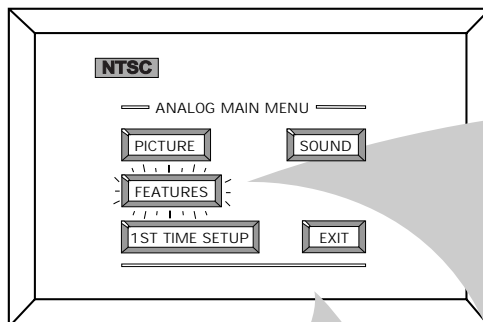
With the FEATURES MENU on-screen, move the RED highlight with the MENU buttons. Then press the MENU button.

2 Press the MENU buttons to move the RED highlight. Press the MENU button to select (✓) the desired mode - For Example: CABLE.

CABLE- If you **DO** have Cable TV connected to the DPTV. Channels 1-125 available.

NORMAL- If you have an Antenna connected to the DPTV. Channels 2-69 available.

3 Press the "exit" button to clear the screen.





CHANNEL MEMORY AUTO-PROGRAMMING

Your DPTV can automatically set itself for local area (or Cable TV) channels. This makes it easy for you to select only the TV stations in your area when the CHANNEL ▲▼ buttons are pressed.

NOTE: If you went through First Time Setup (see page 6), this task has already been completed for you.

(BEGIN)

- 1 **Select CHANNEL MEMORY (START AUTO-PROGRAMMING)** control.

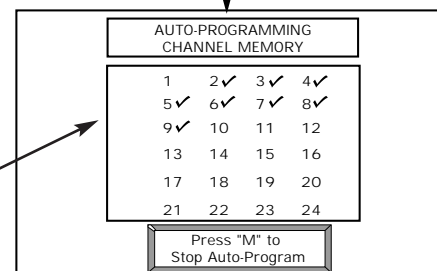
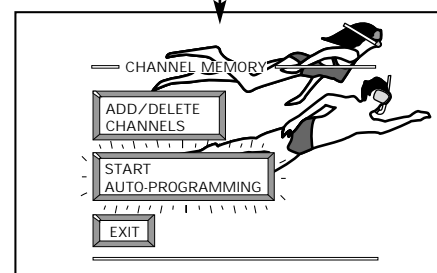
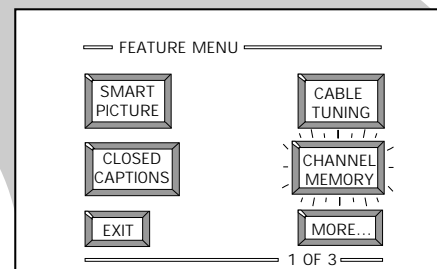
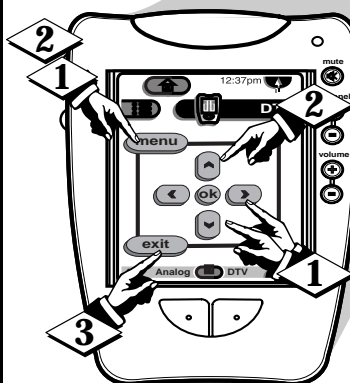
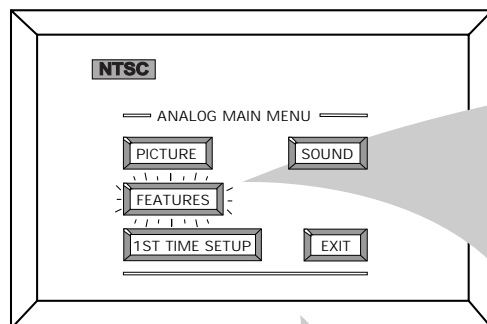
With the FEATURES MENU on-screen, move the RED highlight with the MENU ◀▶ buttons. Then press the MENU button.

- 2 **Press the MENU ▲▼ buttons** to select the START AUTO-PROGRAMMING option, then press the Menu button to begin.

The TV shows which channel numbers are "SAVED" (✓) as they are added into memory.

"Auto-programming CHANNEL MEMORY is finished" shows when the DPTV is through adding channels.

- 3 **Press the "exit" (or Menu) button** to clear the screen.



✓ Channel Numbers are Saved in Memory

SMART HELP



Try it out. Press the CHANNEL ▲▼ buttons and see which channels you can select.

Remember, an Antenna or Cable signal must first be connected to your DPTV so that channels can be saved.

If you want to delete any unwanted channels from the DPTV's memory, see "ADD/DELETE CHANNELS" on the next page.



ADD/DELETE CHANNELS

Auto-Programming (see previous page) adds all the channels it can find (on your Antenna or Cable TV system) into the DPTV's memory. Add/Delete Channels makes it easy for you to add other channels, or drop unwanted channels, from the list of channels in the DPTV's memory.

BEGIN

1 Select CHANNEL MEMORY (ADD/DELETE CHANNELS) control.

With the FEATURES MENU on-screen, move the RED highlight with the MENU buttons. Then press the MENU button.

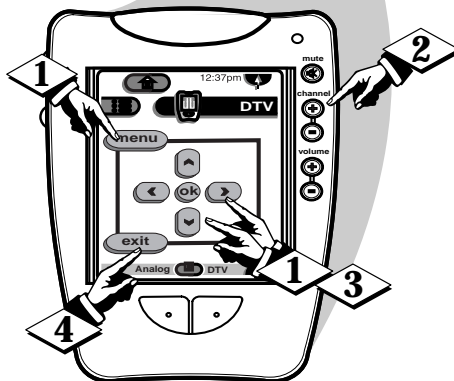
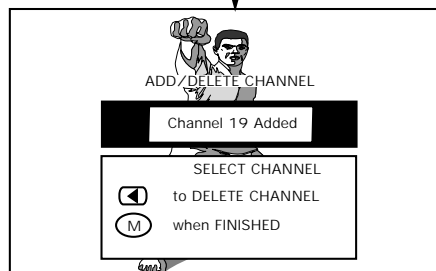
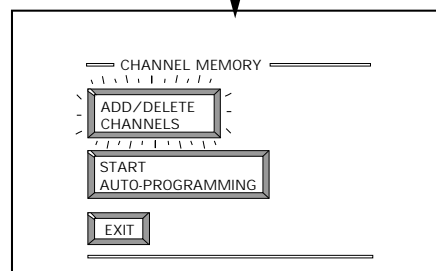
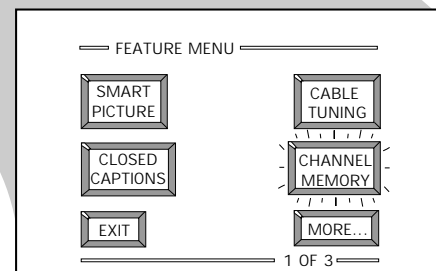
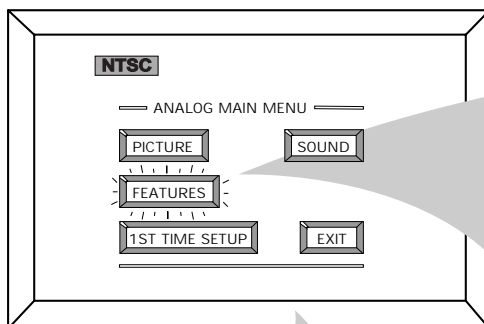
2 Press the CHANNEL (+)/(-) (or number buttons on the remote's 2/3 touchscreen display) to select the channel you want to add or delete.

3 Press the MENU button to ADD the channel into the DPTV's memory.

Press the MENU button to DELETE the channel from memory.

Repeat steps 2 and 3 for each channel you wish to add or delete.

4 Press the "exit" (or Menu) button to clear the screen when through.





DISPLAY FORMAT

Your DPTV is able to deliver the lifelike, widescreen picture (or “home cinema” viewing experience) that is promised with High Definition TV programming. The Display Format control can be used to expand conventional 4:3 aspect ratio (width-to-height) broadcasts in order to fit your DPTV’s widescreen 16:9 format; or to reset the screen to best match the current programming.

(BEGIN)

- 1 Select **DISPLAY FORMAT** control.

With FEATURES MENU (2 of 3) on-screen, move the RED highlight with the MENU buttons. Then press the MENU button.

- 2 Press the MENU and MENU (or ok) buttons to highlight and select (✓) the desired screen aspect ratio or screen display control.

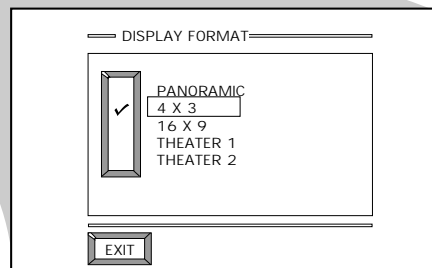
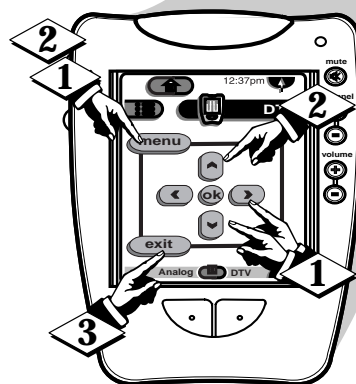
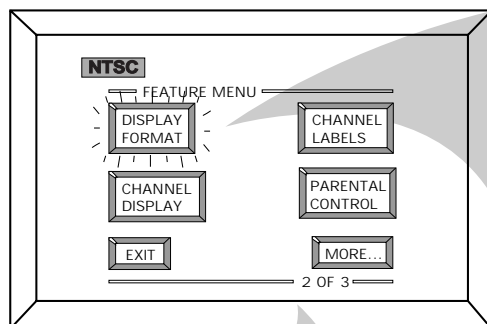
- 3 Press the “exit” button to clear the screen.



SMART HELP



Note: In the past the relationship between a TV screen’s width to height, or aspect ratio, has historically been 33% wider than the picture screen height (or a 4:3 aspect ratio). The widescreen format of your DPTV screen is nearly 80% greater than its measure height (which accounts for a 16:9 aspect ratio). The reason for the 16:9 aspect ratio screen is that it allows for the dramatic and lifelike viewing of original version movies and cinemas (similar to the type found in your local theaters). And the 16:9 aspect ratio widescreen is also a good visual match for how our eyes work in a horizontally oriented field of view and action plane.



Panoramic



4:3 (Standard)



16:9 (Expand)



Theater 1 or 2

Panoramic - Conventional picture is expanded to fill the full 16:9 aspect ratio screen area. Most of the non-linear picture expansion is performed toward the outer edges so that correct proportions are retained in the center of the screen.

4:3 (Standard) - Conventional TV picture format shows on the screen. Black bar areas show on the side margins of the screen.

16:9 (Expand) - Full widescreen mode with linear expansion to view HDTV program broadcasts. Used for material originally produced in 16:9 format.

Theater 1/2 - Expanded zoom modes with picture images increased in magnification. Designed for use with “letterbox” or cropped movie images such as found with Cinemascope or Cinerama type program material. Note: With the Theater modes there can be some loss of information at the edges as the picture expands to fill the screen.



CHANNEL DISPLAY

With the Channel Display control you can change the size and location of the on-screen channel and clock information.

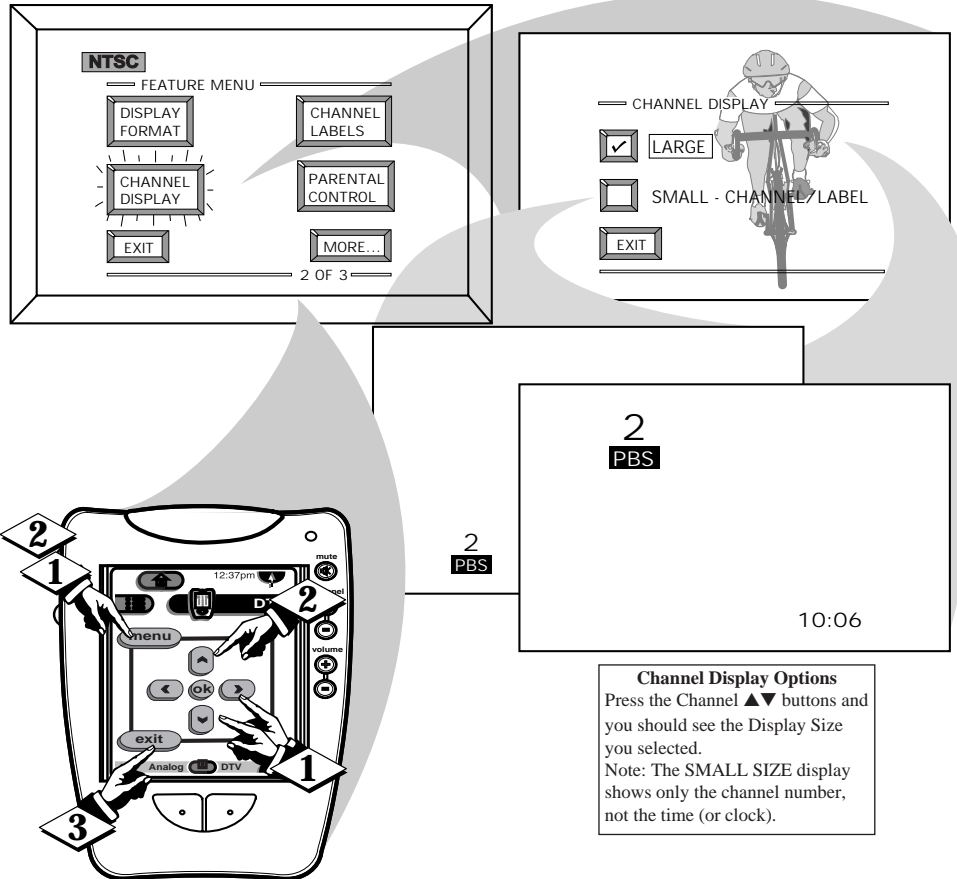
(BEGIN)

- 1 Select **CHANNEL DISPLAY** control.

With FEATURES MENU (2 of 3) on-screen, move the RED highlight with the MENU buttons. Then press the MENU button.

- 2 Press the MENU and MENU (or ok) buttons to highlight and select (✓) the LARGE or SMALL display control.

- 3 Press the “exit” button to clear the screen.



SET CLOCK

Your DPTV comes with an on-screen clock. During normal operation the clock appears on the screen with every channel change (and when the STATUS button is pressed).

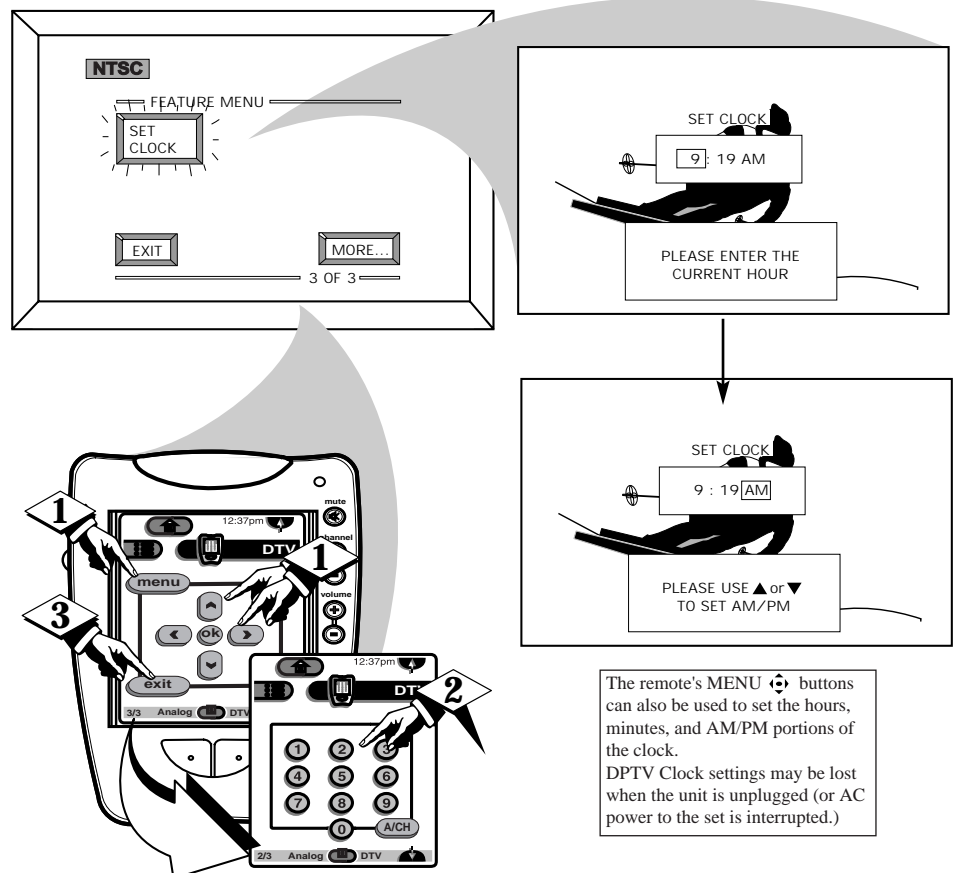
(BEGIN)

- 1 Select **SET CLOCK** control.

With FEATURES MENU (3 of 3) on screen, move the RED highlight with the MENU buttons. Then press the MENU button.

- 2 Press the remote's number buttons (on the remote's 2/3 touchscreen display) to set the time clock Note: Be sure to press "0" first and then the hour number for single digit hour or minute entries.

- 3 Press the “exit” button to set the clock in operation and clear the screen.





CHANNEL LABELS

Do you ever have trouble remembering on which channel a particular station or network is located? The Channel Labels Control is a quick way to view and select channels from a list of Labeled channels.

A Label is a four letter callout you can set to appear with the on-screen channel number. Example Label: WXYZ - for a TV station's call letters.

To create station labels using the Channel Labels Control:

(BEGIN)

- 1 Select **CHANNEL LABELS** control.

With the **FEATURE MENU** (2 of 3) on-screen, move the **RED** highlight using the **MENU** (or **ok**) buttons. Then press the **MENU** (or **ok**) button.

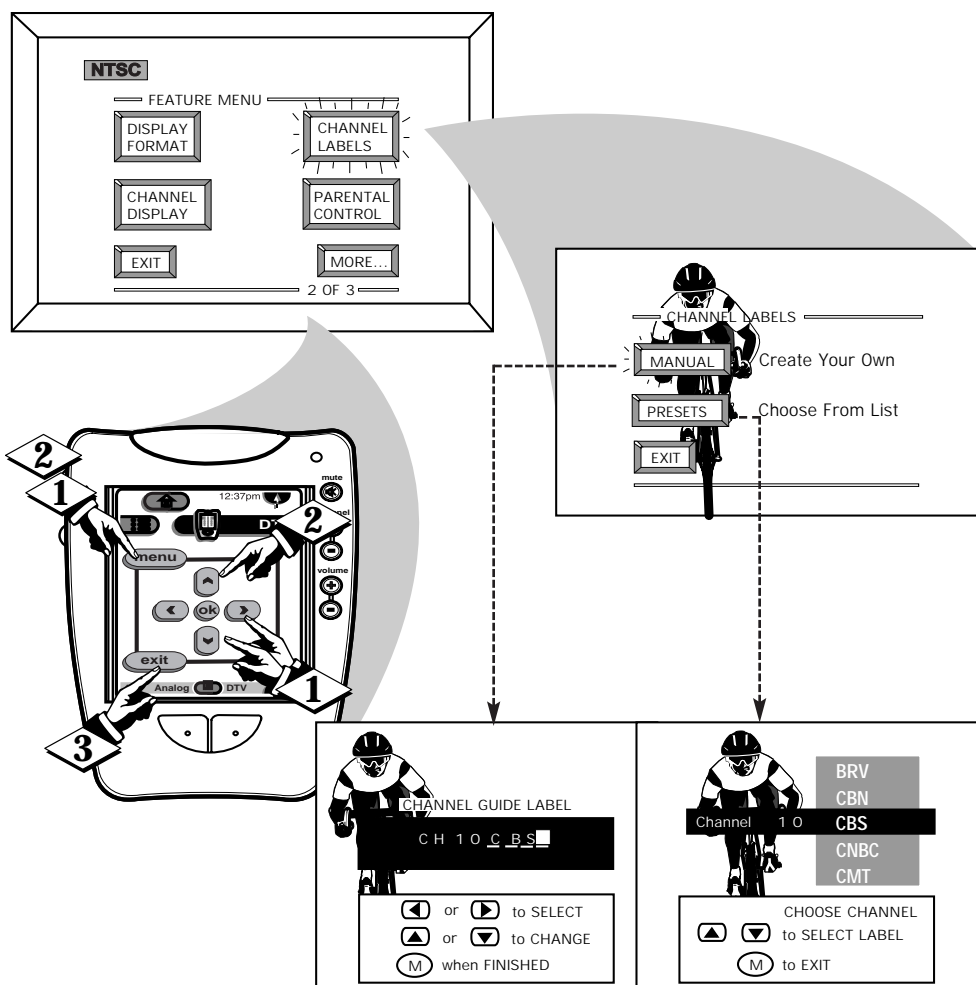
- 2 Press the **MENU** ▲▼ and **MENU** (or **ok**) buttons to highlight and select either:

"**MANUAL**" to create your own label for a channel.

"**PRESETS**" to choose from a list of prewritten channel labels.

(See instruction details on this page.)

- 3 Press the "**exit**" button to clear the screen.



MANUAL- To create your own Channel Label:

Press the **Channel** ▲▼ or **Number** buttons to select desired station.

A **red highlight** shows the active letter space for the channel label.

Press the **MENU** ▲▼ buttons to pick any of the letters or symbols that are given for your use.

Press the **MENU** ◀▶ buttons to move the red highlight to the other letter spaces and repeat.

Press the **Exit** button to clear the screen when finished.

PRESETS -To pick a Label from the "LABEL" list:

Press the **Channel** ▲▼ or **Number** buttons to select desired station.

Press the **MENU** ▲▼ buttons to move up and down the Channel Label list.

Just stop on any label you might want to use.

The selected label automatically appears with channel changes and when the **STATUS** button is pressed.

Press the **Exit** button to clear the screen when finished.



PARENTAL CONTROL SETUP CODE NUMBER

Parental Control allows parents to block out, or "censor", any channels they think children should not watch. A channel placed under Parental Control cannot be viewed until a correct access code is used to unlock the channel for viewing.

First let's set your Parental Code:

(BEGIN)

1 Select the PARENTAL CONTROL.

With FEATURES MENU (2 of 3) on screen, move the RED highlight with the MENU (M) (◀▶) buttons. Then press the MENU button.

"CHANNEL BLOCKING" and "SETUP CODE" show on screen.

2 Press the MENU ▲▼ and MENU (or ok) buttons to highlight and select the SETUP CODE item.

3 Press 0, 7, 1, 1 on the remote.

"XXXX" shows on the ACCESS CODE SETUP screen as you press the number buttons.

"INCORRECT ACCESS CODE - TRY AGAIN" will also show on the screen.

4 Press 0, 7, 1, 1 on the remote again.

"Next Enter Your New Access Code" shows on the screen.

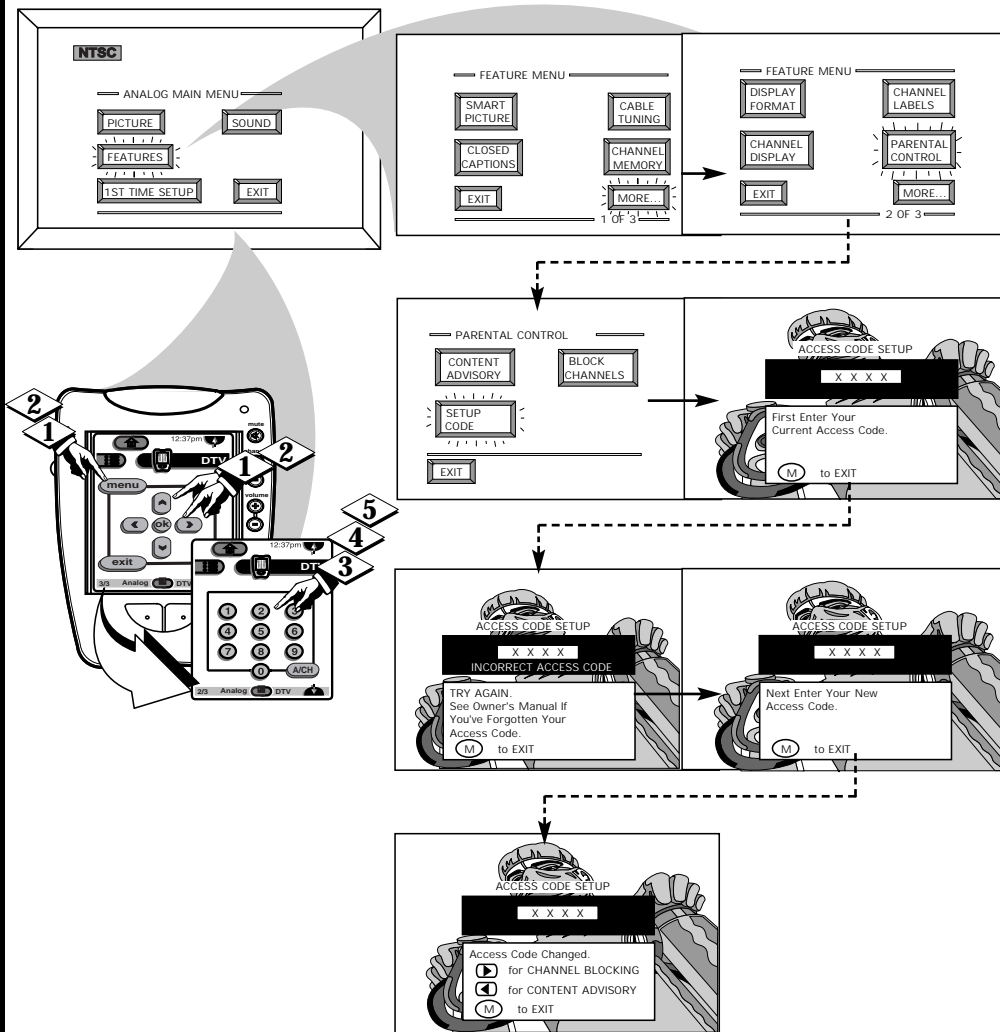
5 Enter a new four digit number code using the remote.

"Access Code Changed" shows on the screen to let you know the new code has been set.

Continue to the next page to find out how to "BLOCK" channels from viewing.

NOTE: Your TV left the factory with the Parental Code set to "0000". If you are using your TV and the Parental Control for the first time, and don't want to SETUP a new Access code number, you can use the "0000" number to block channels - see next page.

The "0711" Parental Code (shown on this page) is given as a default or way to reset the Code when the current Access number is not known. Also, once set, the same Access Code Number will apply for the use and operation of the Parental Control system found in both the NTSC/Analog and the ATSC/Digital Feature Menu control areas.



- Press MENU ▶ to go on and start to "block" channels.
- Press MENU ◀ to go to "Content Advisory" (or TV and Movie Ratings system of channel blocking).
- Press MENU to return to the Parental Control Menu screen.
- Press STATUS to clear the screen.

SMART HELP



Parents - it isn't possible to unlock or defeat your Censor Code without changing to a new code number. So if your Code number changes, and you didn't change it yourself, then you will know that someone has altered the code and the blanked out channel has been viewed.



PARENTAL CONTROL CHANNEL BLOCKING

After your personal Parental Code number has been set (see previous page), you are now ready to select the channels you want to block out or censor.

BEGIN

1 Select the PARENTAL CONTROL.

With FEATURES MENU (2 of 3) on screen, move the RED highlight with the MENU (M) and arrow buttons. Then press the MENU button.

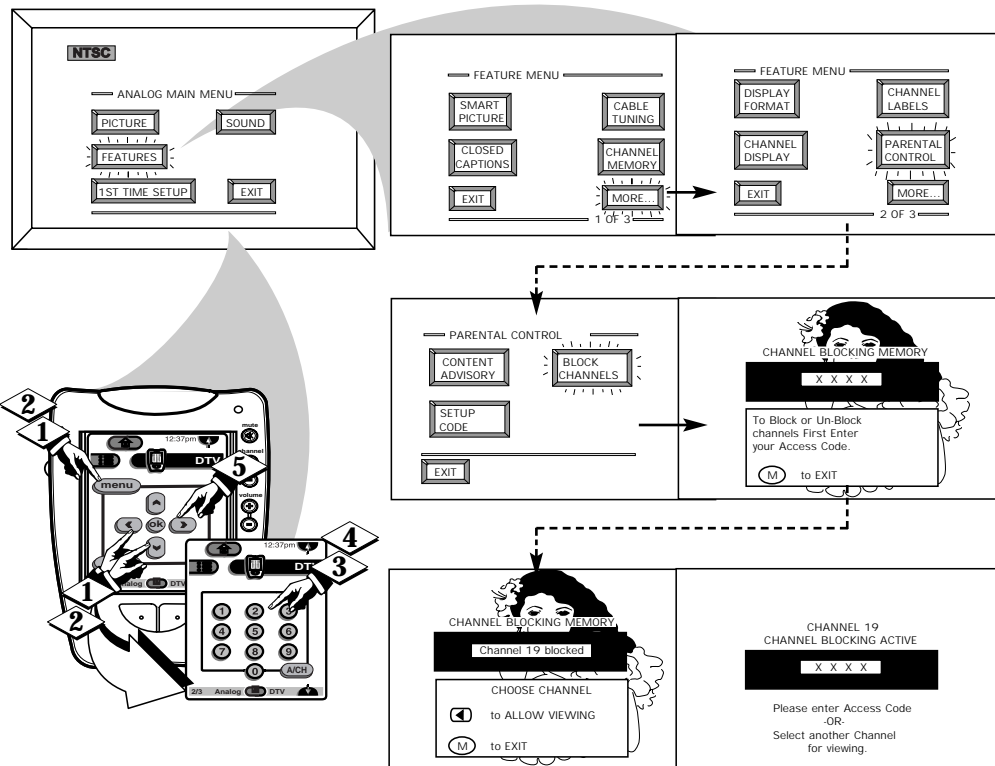
2 Press the MENU ▲▼ and MENU (or ok) buttons to highlight and select the BLOCK CHANNELS item.

3 Enter the correct Parental Code number.

4 Press Channel ▲▼ or Channel Number buttons to select the channel you want to block.

5 Press the MENU ► button to "BLOCK VIEWING" on the selected channel. Press the MENU ◀ button to "ALLOW VIEWING" on a blocked channel.

Repeat steps 3 and 4 for any other channels you wish to block out.



BLOCKED CHANNEL SCREEN MESSAGE
(Appears when an attempt to select a blocked channel is made and Parental Control is ON.)

SMART HELP

Remember, to make DPTV viewing easier all channels will be unblocked, once the correct Parental Code number has been entered. When the DPTV is turned OFF and then back ON again, is when Parental Control is back in place for all blocked out channels.



PARENTAL CONTROL CONTENT ADVISORY

Another new area available to parents for the censoring of program material is through the TV Guidelines and Movie Ratings system. Program Content Advisory data will soon be contained within the broadcast signals of received TV programs. When setup by the parent or viewer, the TV can respond to transmitted advisory data by blocking out or denying access to TV shows (based on whether the program meets or exceeds the limitations you select as viewable). The TV program can then only be viewed by entering the correct and current Parental Code Access number.

The Content Advisory system uses both "Movie Ratings" and a "Parental Guidelines" form of censoring. Refer to the following page sections for explanations on the different Rating system levels and their uses.

BEGIN

1 Select the CONTENT ADVISORY Menu option

With PARENTAL CONTROL Menu on screen, move the RED highlight with the MENU buttons. Then press the MENU (or ok) button.

A Parental Guideline/Movie Rating status screen will appear with a review of currently BLOCKED Content Advisory categories.

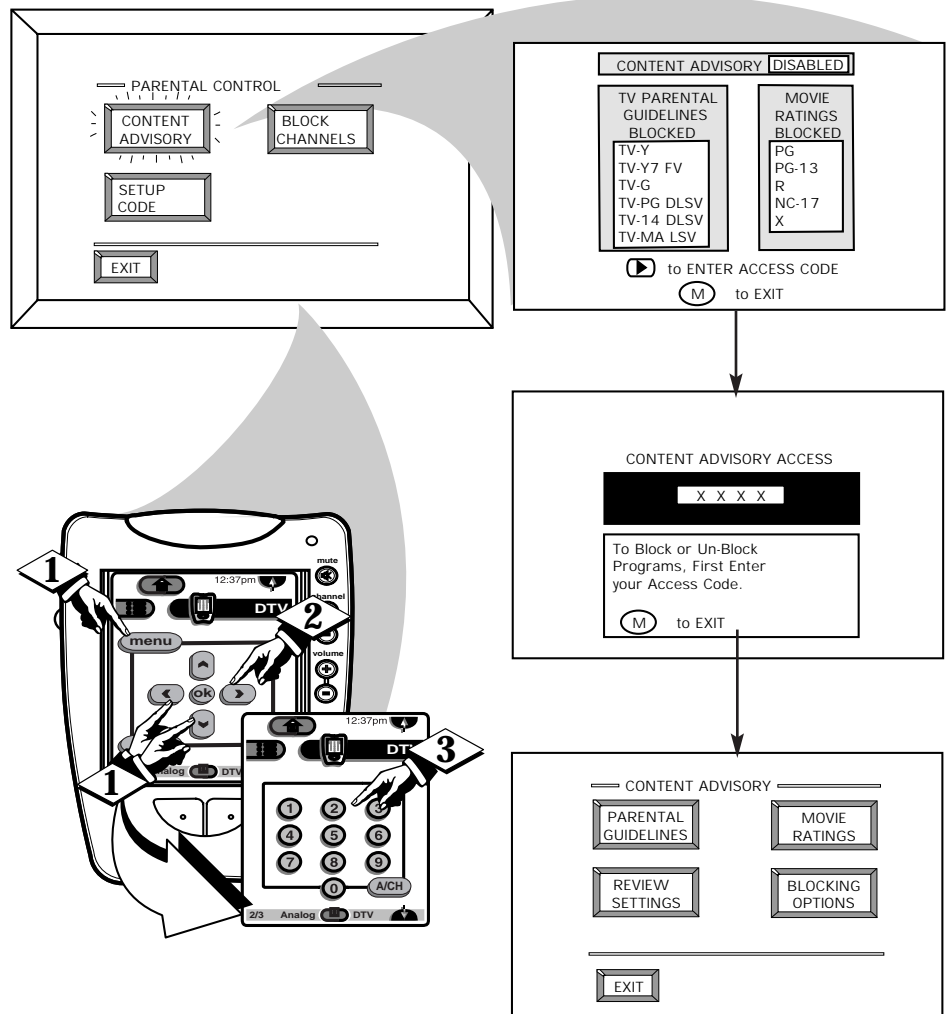
2 Press the MENU button to select the ENTER ACCESS CODE Menu item.

3 Enter the correct Parental Code number (see note at the top of this page).

"CONTENT ADVISORY" Menu screen appears. Parental Guidelines, Movie Ratings and other blocking control items are ready for selection and use.



Note: Please remember that a valid and current Access Code number will be required in the setup and use of the TV's "Content Advisory" system. Review the previous **SETUP CODE** section on how to obtain a valid Parental Access Code number before attempting to make adjustments within the Movie Ratings and Parental Guidelines system.



CHANNEL 8
BLOCKED BY CONTENT ADVISORY
TV GUIDELINES TV-14 D

X X X X

Please enter Access Code
OR
Select another Channel
for viewing.

NOTE: In normal Content Advisory system operation the TV screen will display a message when programming is blocked by a Movie Rating, Parental Guideline, or Blocking Option control feature. Entering the correct ACCESS CODE number will unblock all the blocked Content Advisory Rated channels until the TV is turned Off. The blocked Advisory Ratings will be back in place when the TV is turned back On again.




CONTENT ADVISORY MOVIE RATINGS

Movie Ratings set viewing access levels for TV programming according to current Motion Picture Association of America (MPAA) ratings. These ratings are similar to the categories used with the rated movies appearing in cinema theaters and with video rental material.

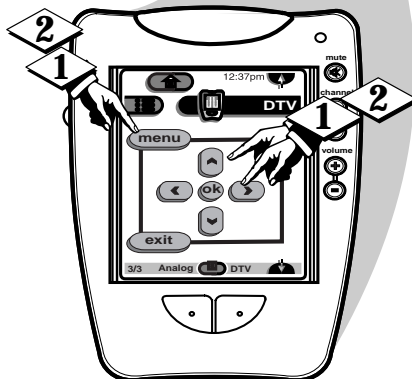
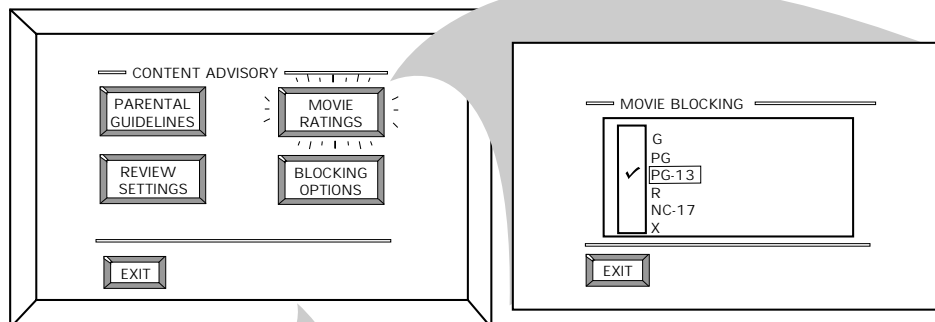
BEGIN

1 Select the MOVIE RATINGS Menu option.

With CONTENT ADVISORY Menu on screen, move the RED highlight with the MENU  buttons. Then press the MENU (or ok) button.

2 Press the MENU and MENU (or ok) buttons to highlight and select (✓) the desired MOVIE BLOCKING level.

When in operation a “Blocked - Movie Rating” TV screen appears when movies are received which include the same selected rating as the Movie Blocking setting(s). Only the correct Access Code number, entered by the viewer, will unblock or allow the viewing of a block rated program.



- **G - General Audience:** Most parents would find this program suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.
- **PG - Parental Guidance:** This programming contains material that parents may find unsuitable for younger children. It may contain one or more of the following: Moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialogue.
- **PG-13:** This programming contains material that parents may find unsuitable for children under the age of 13. It contains one or more of the following: violence, sexual situations, coarse language, or suggestive dialogue.
- **R - Restricted:** This programming is specifically designed for adults. Anyone under the age of 17 should only view this programming with an accompanying parent or adult guardian. It contains one or more of the following: intense violence, intense sexual situations, strong coarse language, or intensely suggestive dialogue.
- **NC-17 - No one under 17 admitted:** This type of programming should be viewed by adults only. It contains graphic violence, explicit sex, or crude indecent language.
- **X - Mature audience only:** This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.

SMART HELP



Note: When a Movie Rating is selected (✓) all higher level ratings are automatically blocked (although each individual Movie Rating can be manually selected and turned On or Off as desired). Programs with lower than the selected rating level are allowed for viewing or unblocked.



CONTENT ADVISORY PARENTAL GUIDELINES

Parental Guidelines can be even more defined and specific in the degree and extent of material parents may allow for TV program viewing. Sub-settings for Language, Violence, and other blocking factors can be manually switched On or Off for use within the major Parental Guideline categories (TV-Y7, TV-PG, etc.).

(BEGIN)

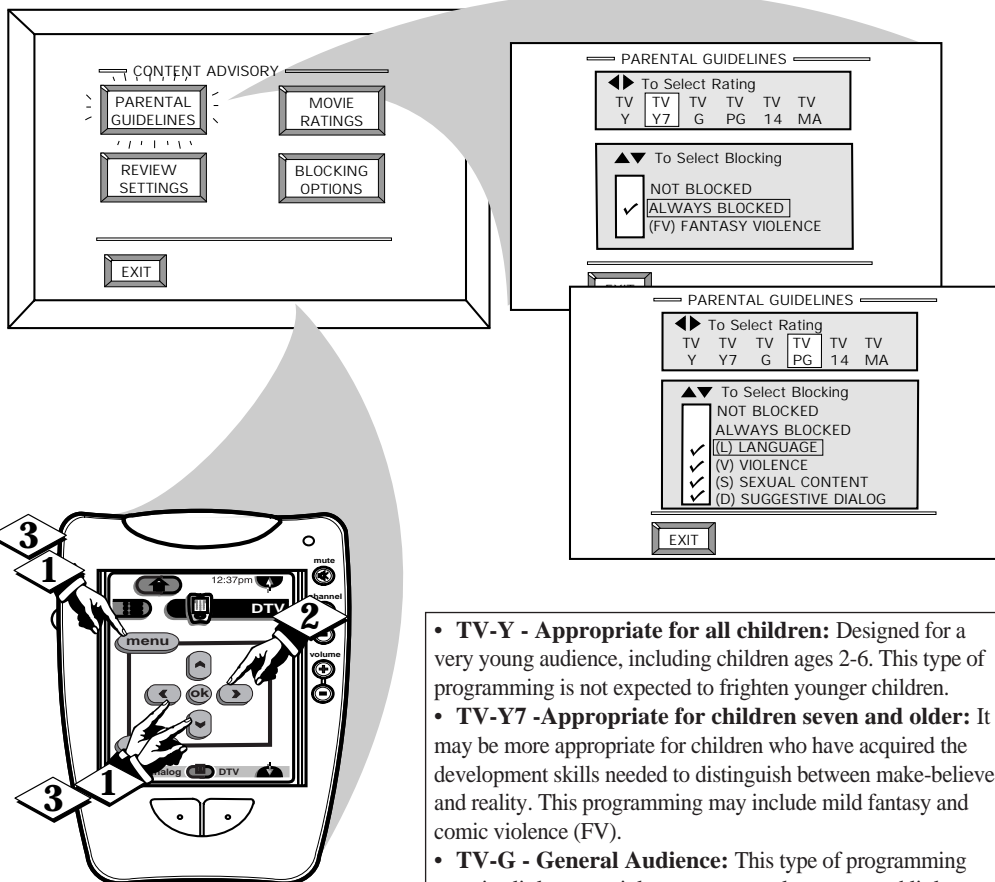
1 Select the PARENTAL GUIDELINES Menu option.

With CONTENT ADVISORY Menu on screen, move the RED highlight with the MENU buttons. Then press the MENU (or ok) button.

2 Press the MENU to highlight and select the desired PARENTAL GUIDELINE rating level (TV-Y, TV-Y7, etc.).

3 Press the MENU and MENU (or ok) buttons to Block (✓) the selected Parental Guideline category (or to set other individual blocking feature items available within that Guideline category (L, V, S, D, etc.) as desired).

Note: Selecting "ALWAYS BLOCKED" (or individually adjusting the L, V, S, D settings) for any one rating will set all other higher level ratings to be automatically blocked as well.



- **TV-Y - Appropriate for all children:** Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.
- **TV-Y7 - Appropriate for children seven and older:** It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).
- **TV-G - General Audience:** This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.
- **TV-PG - Parental Guidance suggested:** This type of programming contains one or more of the following: Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).
- **TV-14 - Unsuitable for children under 14:** This type of programming contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).
- **TV-MA - Mature audience only:** This type of programming contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude indecent language (L).

- **(V) - Violence**
- **(S) - Sexual situations**
- **(L) - Language**
- **(D) - Inappropriate dialogue**
- **(FV) - Fantasy Violence** may frighten children under seven. Some cartoons may have this rating. Available in the TV-Y7 category only.

SMART HELP



The TV-Y7; TV-PG; TV-14; and TV-MA guidelines also include customized settings for various additional items such as V (violence), S (sexual situations), L (coarse language), D (suggestive dialogue), and FV (fantasy violence). These additional settings are category specific and can be individually selected for use as desired.



CONTENT ADVISORY BLOCKING OPTIONS

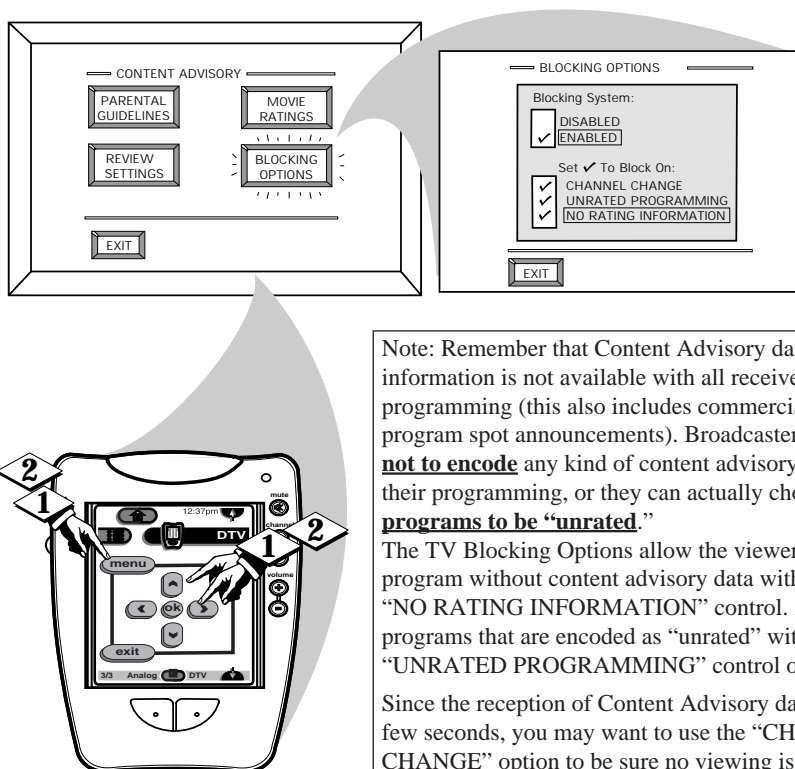
The Content Advisory system also has “Blocking Option” controls which can be used to deny viewing access for channel programs and movies even when they are “unrated”, or contain “no rating” information as broadcasted.

(BEGIN)

1 Select the **BLOCKING OPTIONS** Menu control.

With CONTENT ADVISORY Menu on screen, move the RED highlight with the MENU buttons. Then press the MENU (M) button.

2 Press the MENU and MENU (M) buttons to turn the Blocking System On (highlight and select ENABLED). Then use the remote Menu buttons to select the desired programming and information blocking options. Please refer to Note shown with this page section for details on “unrated” and “no rating” program control options.



Note: Remember that Content Advisory data or encoded information is not available with all received TV programming (this also includes commercials, and other program spot announcements). Broadcaster's can decide **not to encode** any kind of content advisory ratings with their programming, or they can actually choose to **encode programs to be “unrated.”**

The TV Blocking Options allow the viewer to block any program without content advisory data with the use of its “NO RATING INFORMATION” control. And to block programs that are encoded as “unrated” with its “UNRATED PROGRAMMING” control option.

Since the reception of Content Advisory data can take a few seconds, you may want to use the “CHANNEL CHANGE” option to be sure no viewing is allowed during blocked program channel changes. This can eliminate the display of a few seconds of undesirable video on the TV, or receiving scenes from a Ratings blocked channel source.

CONTENT ADVISORY REVIEW SETTINGS

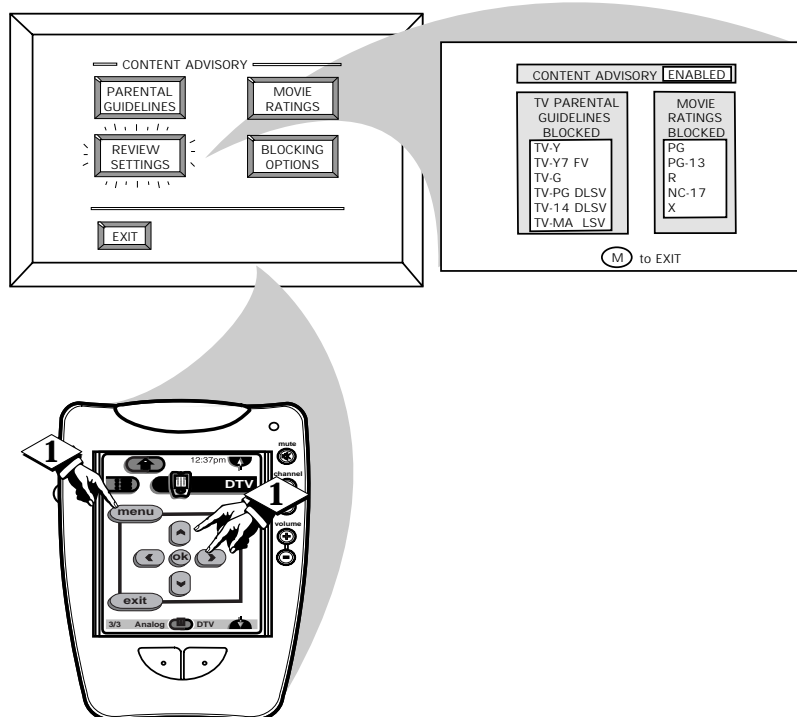
Use the Review Settings control to quickly check the status for Content Advisory system Parental Guidelines and Movie Rating “Blocked” program levels.

(BEGIN)

1 Select the **REVIEW SETTINGS** Menu option.

With CONTENT ADVISORY Menu on screen, move the RED highlight with the MENU buttons. Then press the MENU (or ok) button.

The TV screen will display the current Parental Guideline and Movie Ratings Blocked program settings. Content Advisory system status will also be shown (Enabled - On, or Disabled - Off).





BASS, TREBLE, BALANCE

Your DPTV also has individual sound adjustment controls. The **BASS** (low frequency), **TREBLE** (high frequency), and **Speaker BALANCE** may all be used to adjust the sound playback of NTSC TV programs.

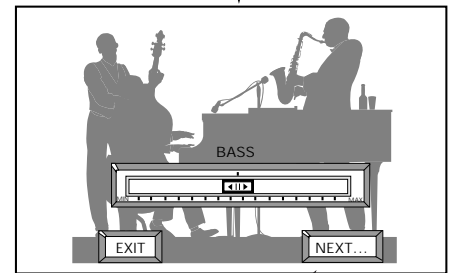
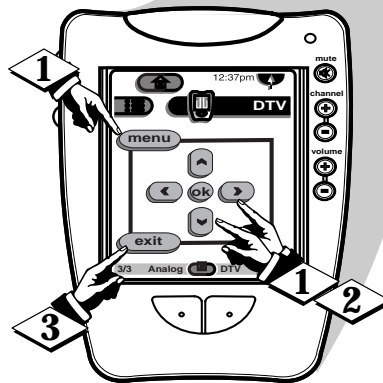
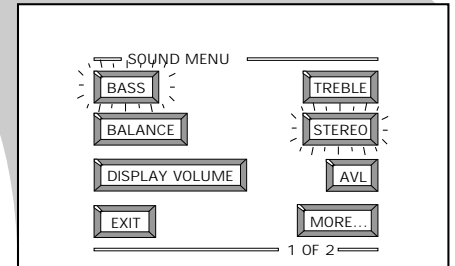
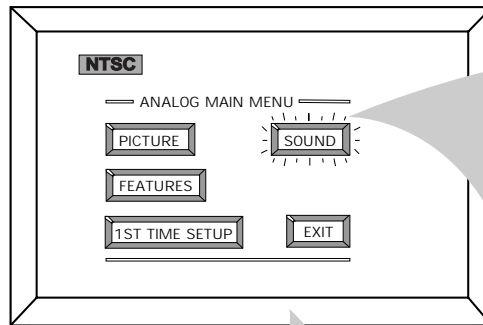
(BEGIN)

- 1** Select **BASS**, or **TREBLE**, or **BALANCE** sound control.

With the **SOUND MENU** on-screen, move the **RED** highlight with the **MENU** buttons. Then press the **MENU** button.

- 2** Press the **MENU** **arrow buttons** to adjust the sound control to levels you prefer.

- 3** Press the **"exit"** button to clear the screen.



Select and then press **MENU** (or **ok**) button to view additional controls grouped under same feature heading. For Example: Treble, Balance, Stereo, etc.



NTSC/ANALOG SOUND MENU CONTROLS

STEREO

Your DPTV is able to receive broadcast stereo TV programs. The DPTV is equipped with an internal amplifier and speaker system through which the stereo sound can be heard.

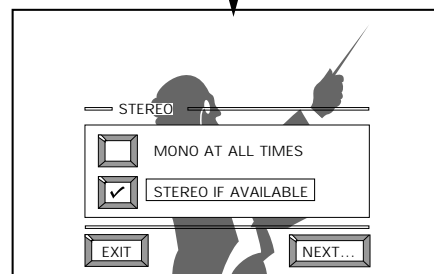
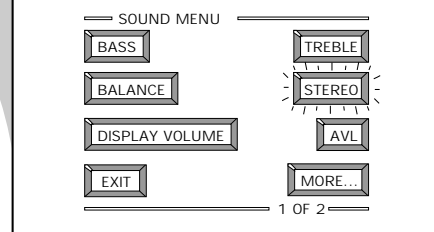
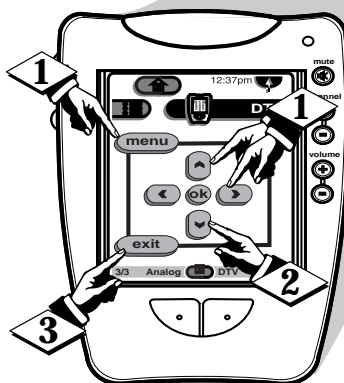
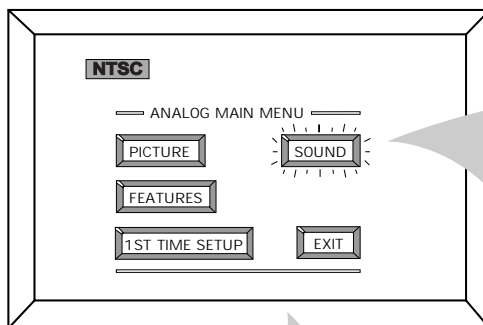
(BEGIN)

- 1 Select **STEREO** sound control.

With the **SOUND MENU** on-screen, move the **RED** highlight with the **MENU** buttons. Then press the **MENU** button.

- 2 Press the **MENU** and **MENU (M)** buttons to highlight and turn ON (✓) the **STEREO** mode.

- 3 Press the “**exit**” button to clear the screen.



SMART HELP

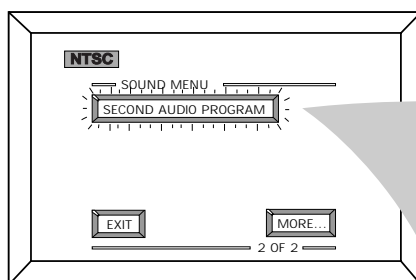


Remember.
If a stereo signal is not available and the DPTV is placed in **STEREO**, the sound coming from the unit will remain monaural (mono).

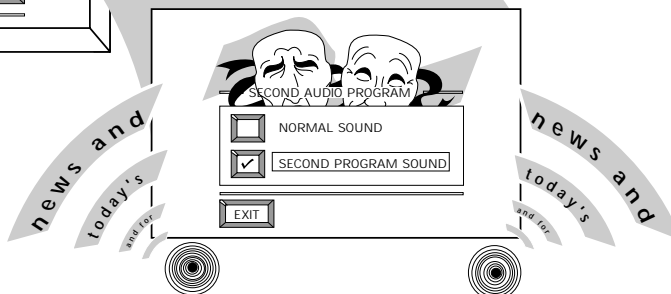
SECOND AUDIO PROGRAM

Second Audio Program (SAP) is part of the stereo broadcast system. Sent as an additional audio channel SAP can be heard apart from the current TV program sound. TV stations are free to use SAP for any number of purposes, but many experts believe it will be used for foreign language translations of TV shows (or for weather and news bulletins.)

NOTE: If a SAP signal is not present with a selected program, the SAP option can not be selected. "This program does not contain SAP information" will show on the DPTV screen.



SECOND PROGRAM SOUND CAN ONLY BE SELECTED (✓) WHEN SAP INFORMATION IS PRESENT ON THE CURRENT CHANNEL.





DISPLAY VOLUME

Use the DISPLAY VOLUME control to see program volume level settings on the DPTV screen. Once set, the Volume Display will be seen each time the VOLUME buttons (on the DPTV local keyboard or remote) are pressed.

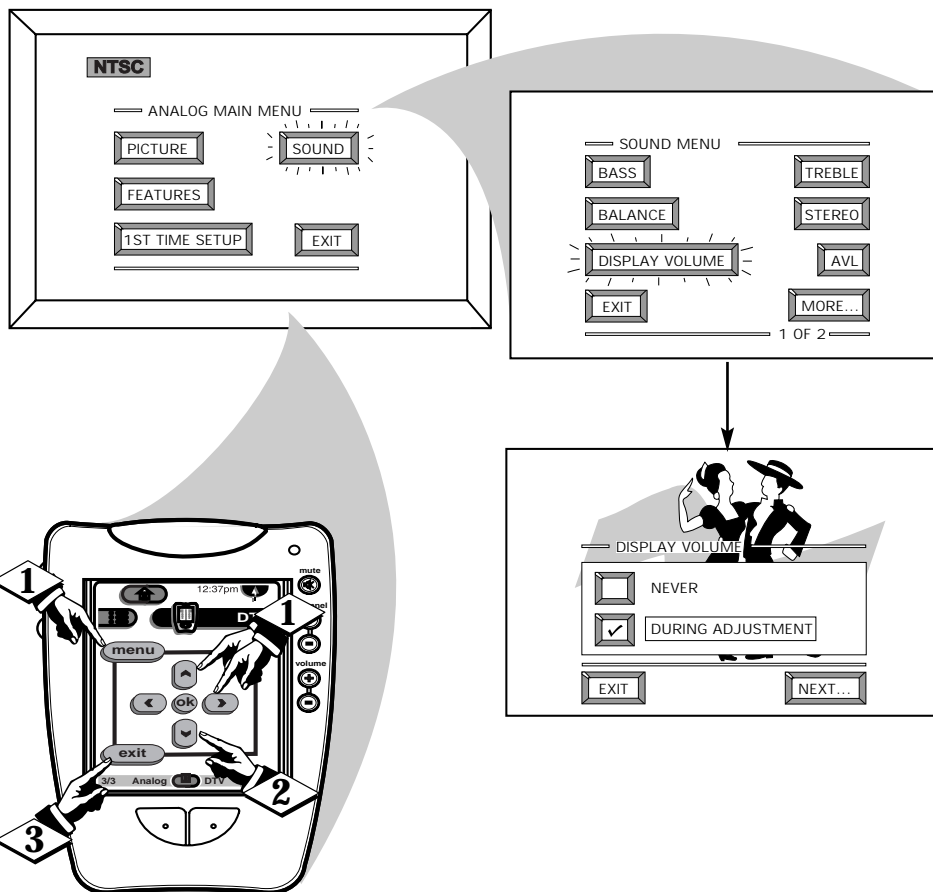
BEGIN

- 1** Select **DISPLAY VOLUME** control.

With SOUND MENU on-screen, move the RED highlight with the MENU buttons. Then press the MENU button.

- 2** Press the MENU and MENU (or ok) buttons to highlight and turn ON (✓) the DISPLAY VOLUME control.

- 3** Press the "exit" button to clear the screen.





AUTOMATIC VOLUME LIMITER

Are you tired of the sound of commercials following you into the next room or all through the house? The Automatic Volume Limiter (AVL) control allows you to preset a desired volume level that the DPTV sound will not go above. This makes for an even, more consistent sound by reducing the “peaks” and “valleys” that can occur during program changes or commercial breaks.

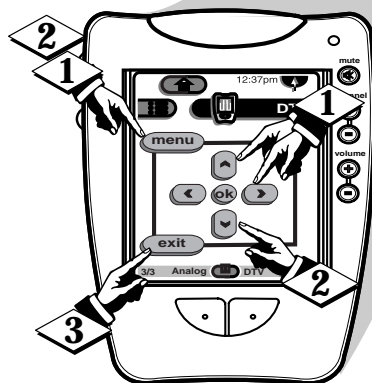
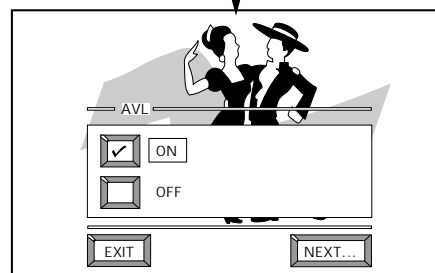
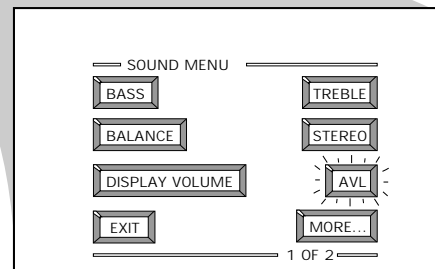
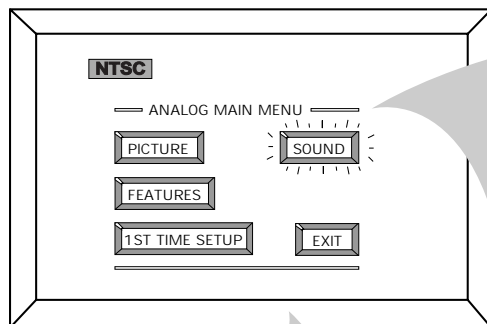
BEGIN

- 1 Select AVL (Automatic Volume Limiter) control.

With SOUND MENU on-screen, move the RED highlight with the MENU buttons. Then press the MENU button.

- 2 Press the MENU or and then the MENU (or ok) button to turn the AVL control ON (or OFF).

- 3 Press the “exit” button to clear the screen when completed.



SMART HELP



Remember, AVL works for sound levels coming from either the Antenna/Cable input on the rear of the DPTV (RF audio) or the Auxiliary (AUX IN) audio inputs.



ANALOG TV MODE

The Remote Control contains three display screens of “Analog TV” related controls. Use the touchscreen controls to access and adjust NTSC features for Input selection and Menu feature adjustments.

Note: For battery installation and other details on the initial use of the remote control also refer to the **HD6400W Quick Use** guide included with your DPTV.

BEGIN

- 1 Gently tap the remote touchscreen with your finger to display its control panel for use.

Be sure “DTV” is selected for the current device tab item category.

- 2 Press the “Analog” command button (on the lower left of remote case) to ensure NTSC mode commands are sent from the remote.



SMART HELP



Due to the amount of optional component and feature uses available with the remote’s Device Reference and Learn Code lists, please also refer to the separate full-use Remote Control Owner’s Manual for complete details on its function and operations.

alternate audio
Primarily used for “alt audio” ATSC mode feature, this button can also be used to quickly select the NTSC Second Audio Program (SAP) feature (when available).

power button
Press to turn the DPTV ON and OFF.

status button
Press to see the current channel number on the DPTV screen. Also press to clear the DPTV screen after control adjustments.

mute button
Press to turn the sound OFF on the DPTV. Press again to return the sound to its previous level.

channel scan buttons
Press to scan up (+) or down (-) through any NTSC programmed channel numbers.

volume buttons
Press to adjust the DPTV sound level up (+) and down (-).

ext input button
Press to quickly select NTSC auxiliary input modes (AUX1/2/3), as well as cycle through the DPTV’s other input option modes (Monitor VGA, EXT HD, etc.).

analog format button
Press to select one of the TV screen display format modes (i.e. Panoramic, 4:3, 16:9, etc.).

number buttons
Press the number buttons to select DPTV channels. Press two number buttons to select single digit “major” channel numbers. For example: press “0” then “6” for channel 6.

sleep button
Press to set the DPTV to automatically turn itself OFF. (15 minutes to 2 hours ahead.)

A/CH button
Press Alternate Channel (A/CH) to select previously viewed channels. Enter the desired two channel numbers (from the remote’s number buttons), and then press A/CH to toggle back and forth between the two channel selections.

exit button
Press to clear the DPTV screen after control adjustments. Also press to see the current channel number on the DPTV screen.

scroll arrows
Press to move to the next (or previous) page of remote controls. The touchscreen will display the current control screen’s page number, and the total number of pages available for the selected device (1/3; 2/3; etc.).

menu buttons
Press the Menu (or ok) button to show on-screen controls. Press M ▲ or ▼ buttons to move up (or down), the M ◀ or ▶ to move left (or right) through the list of controls.

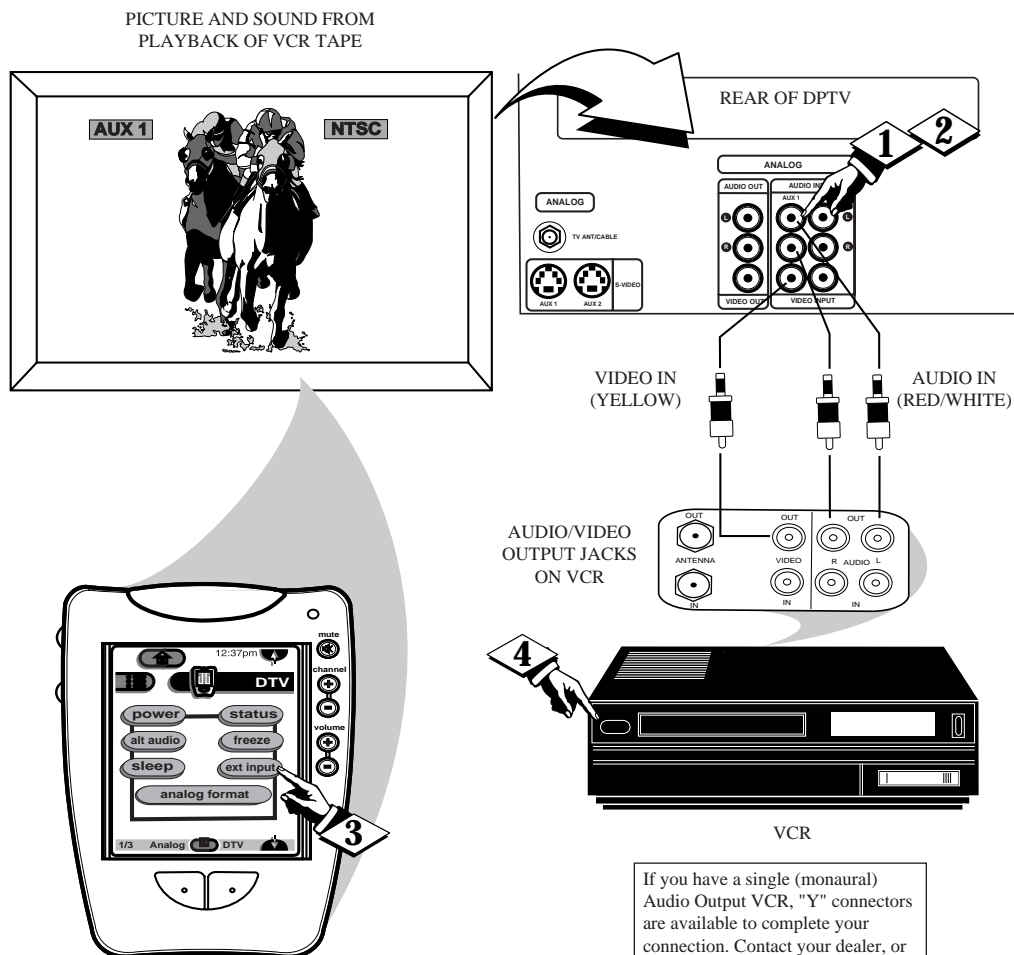
AUX1/2 INPUTS

The Analog Audio/Video Input jacks are for direct NTSC picture and sound connections between the DPTV and auxiliary equipment (VCR, DVD Player, etc.) that has Audio/Video Output jacks.

To view the playback of a VCR tape by using the Analog AUX1 Audio/Video Input jacks:

BEGIN

- 1** Connect the **VIDEO OUT** jack from the VCR to the **AUX 1 VIDEO IN** jack on the DPTV.
- 2** Connect the **AUDIO OUT** jacks R(ight) and L(ef) from the VCR to the **AUX 1 AUDIO IN** jacks on the DPTV.
- 3** Press the "ext input" button on the remote (or the Source button on the DPTV's local keyboard) to select the **AUX 1 Audio/Video Inputs** on the rear of the DPTV.
- 4** Turn the **VCR ON** and press **PLAY** to view the tape playback on the DPTV.



If you have a single (monaural) Audio Output VCR, "Y" connectors are available to complete your connection. Contact your dealer, or our Parts Information Center (1-800-292-6066) to order any optional accessories.

SMART HELP

Remember, connections and use of the DPTV's **AUX 2 Audio/Video Input jacks** are the same as for the **AUX 1** jacks (except "AUX 2" is selected as the Input Source in step 3).



AUX 3 INPUTS

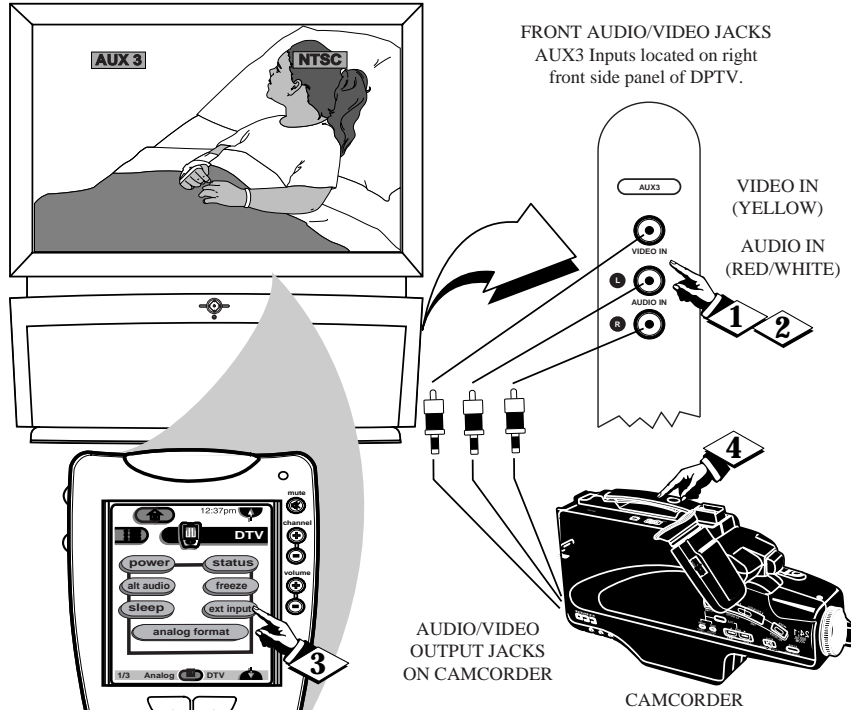
For more convenient *Direct* playback connections use the DPTV's Front Audio/Video Input panel (located on the DPTV's right front side panel). These Inputs allow for quick and easy access, particularly for the playback of Camcorder tape recordings.

BEGIN

- 1 Connect the **VIDEO OUT** jack from the Camcorder to the AUX3 VIDEO IN jack on the DPTV.
- 2 Connect the **AUDIO OUT** jacks R(ight) and L(ef) from the Camcorder to the AUX3 AUDIO IN jacks on the DPTV.
- 3 Press the "ext input" button on the remote (or the Source button on the DPTV's local keyboard) to select the AUX3 Audio/Video Inputs on the DPTV.
- 4 Turn the Camcorder ON and press PLAY to view the tape on the DPTV.



PICTURE AND SOUND FROM PLAYBACK OF CAMCORDER TAPE



If you have a single (monaural) Audio Output Camcorder, "Y" connectors are available to complete your connection. Contact your dealer, or our Parts Information Center (1-800-292-6066) to order any optional accessories.

AUDIO/VIDEO OUTPUTS

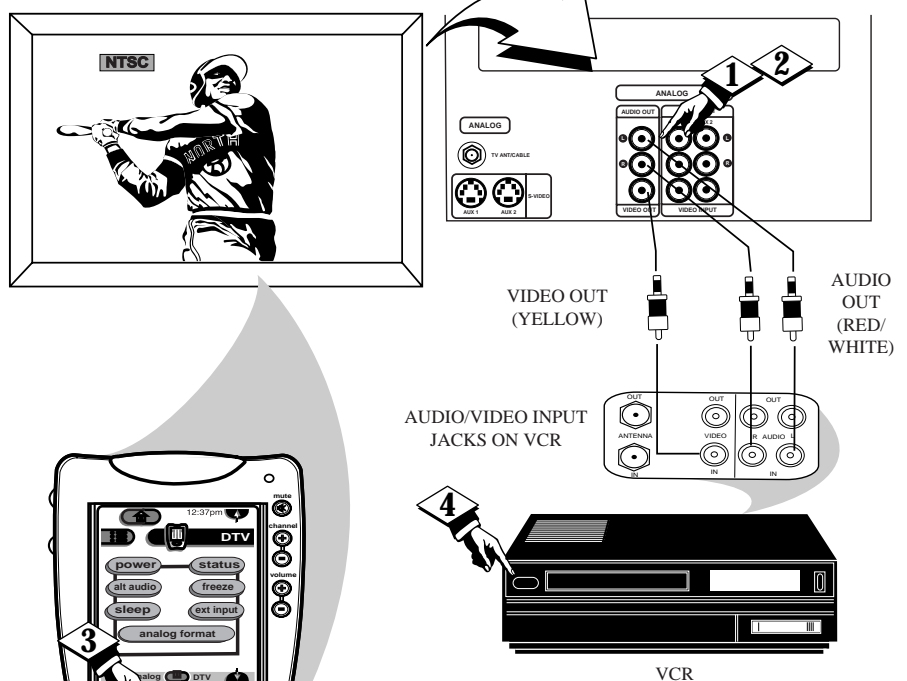
The Audio/Video Output jacks on the DPTV can be used to record TV programs on VCRs which have Audio/Video Input jacks. To use the Audio/Video Outputs for program recording:

BEGIN

- 1 Connect the **VIDEO OUT** jack from the DPTV to the VIDEO IN jack on the VCR.
- 2 Connect the **AUDIO OUT** jacks R(ight) and L(ef) from the DPTV to the AUDIO IN jacks on the VCR.
- 3 Press the "Analog" command button on the remote (or the Source button on the DPTV's local keyboard) to place the DPTV in the NTSC mode. Select the channel on the DPTV that you want to record.
- 4 Turn the VCR ON. Put a cassette tape in the unit and place the VCR in the RECORD mode.



PICTURE AND SOUND BEING RECORDED ON VCR



Remember, if the VCR has an INPUT SELECTOR switch, place it in the LINE or CAMERA position. Note: Unattended Timer Recordings with a VCR are possible, but not recommended with this connection since the DPTV must be left ON for the VCR to record.



AUDIO/VIDEO NTSC ANALOG CONNECTIONS

AUX1 - S-VIDEO INPUTS

The S(uper)-Video connections on the rear of the DPTV offer improved picture detail and clarity for the playback of S-VHS VCR tapes or DVDs over a standard composite video input connection.

Note: The VCR (or DVD Player) must have a S-VIDEO OUT(put) jack in order for you to complete the connections shown on this page.

BEGIN

- 1 Connect the S-VIDEO (S-VHS) OUT** jack from the VCR to the AUX1 S-VIDEO input plug on the DPTV.

The S-VIDEO connecting cable will be supplied with the S-VHS VCR (or DVD Player).

- 2 Connect the AUDIO OUT** jacks R(ight) and L(eft) from the S-VIDEO VCR to the AUX1 AUDIO input jacks on the DPTV.

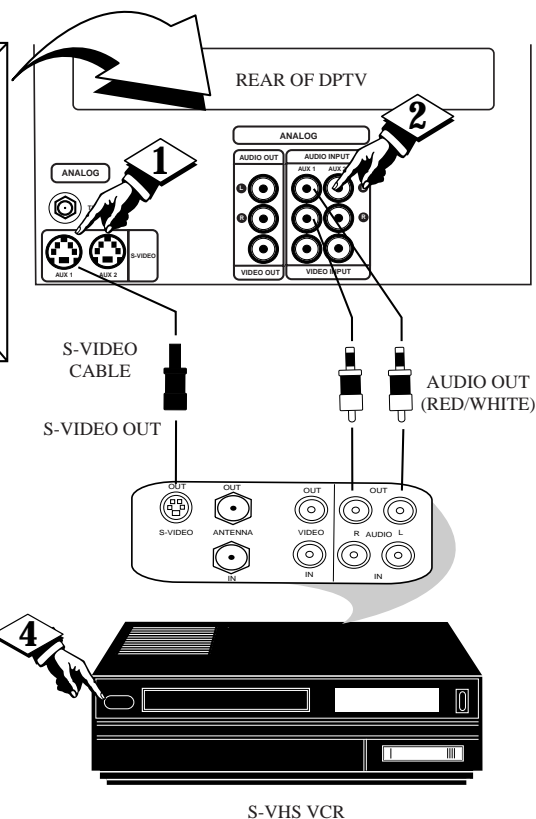
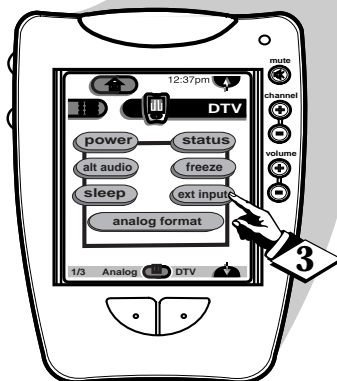
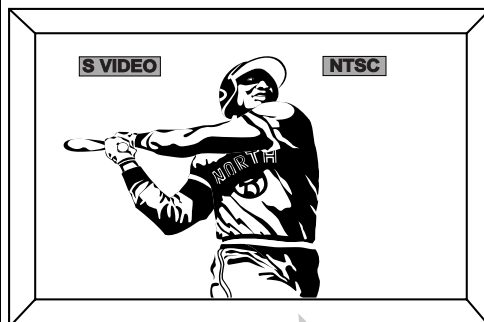
- 3 Press the "ext input" button** on the remote (or the Source button on the DPTV's local keyboard) to select the S VIDEO input on the DPTV.

Note: The "S VIDEO" picture source option appears only when a S-VIDEO cable has been connected to the DPTV.

- 4 Turn the VCR ON** and place it in the S-VIDEO (or S-VHS) playback mode. Insert S-VHS cassette tape and playback in a normal manner.



PICTURE AND SOUND FROM PLAYBACK OF S-VHS VCR TAPE PLAYBACK



NOTE: A CD-i (Compact Disc Interactive) player, Video Game, or other S-VIDEO accessory can be hooked up to the DPTV using this type of connection. Please be aware that such video sources, which show a constant non-moving pattern on the DPTV screen, can cause picture tube damage. When not in use turn your video accessories OFF. Also, regularly alternate the use of video sources with normal TV program viewing.

SMART HELP



Remember, connections and use of the DPTV's S-VIDEO AUX2 Input plug is the same as for the S-VIDEO AUX1 input (except "S-VIDEO 2" is selected as the Picture Source in step 3).



COMPONENT VIDEO INPUTS

Component Video Inputs provide for the highest possible color and picture resolution in the playback of digital signal source material such as with DVD players. The color difference signals (PB, PR) and the luminance (Y) signal are connected and received separately which permits for improved color bandwidth information (not possible when using composite video or S-Video connections).

BEGIN

1 Connect the Component (Y Pb Pr) VIDEO OUT jacks from the DVD player to the (Y Pb Pr) VIDEO IN(puts) on the DPTV.

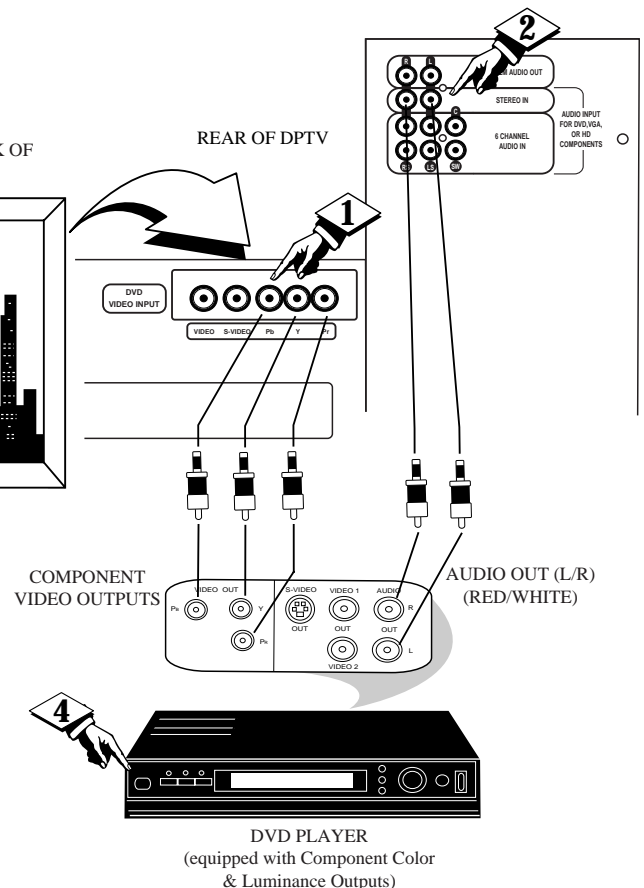
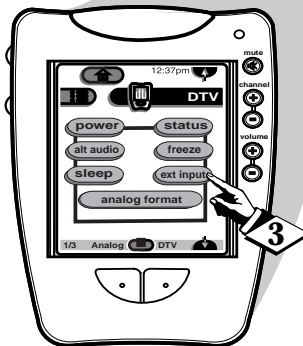
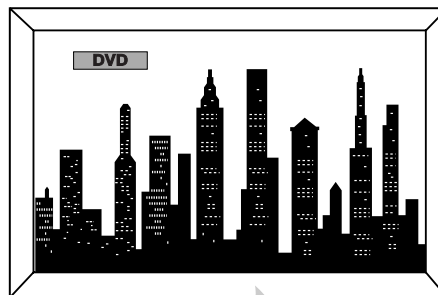
2 Connect the AUDIO OUT jacks R(ight) and L(eft) from the DVD player to the STEREO IN AUDIO IN jacks on the DPTV.

3 Select "DVD" as the picture source mode for the DPTV. Press the "ext input" button on the remote (or the Source button on the DPTV's local keyboard) to select the DVD input for use on the DPTV.

4 Turn the DVD player ON and press PLAY to view the source material playback on the DPTV.



PICTURE AND SOUND FROM PLAYBACK OF DVD SOURCE MATERIAL



Note: The DPTV is equipped for three different types of DVD Player Video Input connections (Component, S-Video, or Composite Video). Check the manual for your brand DVD to determine the best possible video connection for your system.

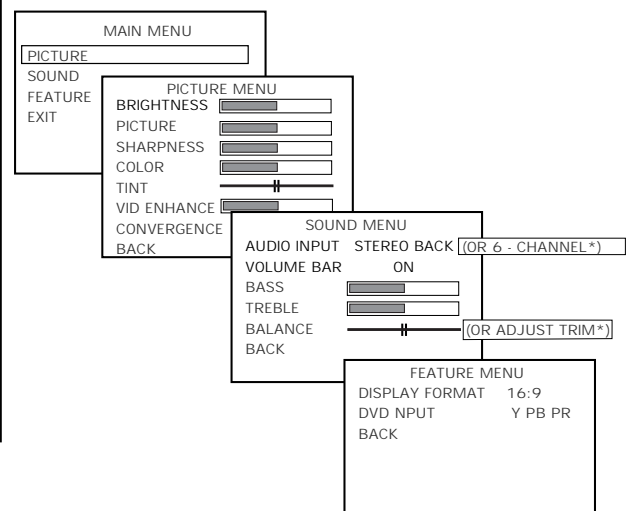
Optional Video/Audio Cables (with standard RCA plug connectors) are available to complete your Component Input Jack connections. Contact your dealer, or our Parts Information Center (1-800-851-8885) to order any optional accessories.

SMART HELP

The description for the component video connectors may differ depending on the DVD player or accessory digital source equipment used (e.g. Y Pb Pr; R-Y/B-Y/Y; Cr/Cb/Y, etc.). Although abbreviations and terms may vary, the letters "B" and "R" stand for the blue and red color component signal connectors and "Y" indicates the luminance signal. Refer to your DVD or digital accessory Owner's Manual for definitions and connection details.

DVD MODE - MENU FUNCTIONS

Note: A variety of Picture, Sound, and Input adjustment Menu controls are available for use within the DVD Input Source mode. These control feature items can assist in the setup of optimum format and viewing levels when using the DPTV with an external accessory DVD player. Just press the Menu (or ok) button on the remote when in the DVD Source mode to display the list of on screen controls. Then use the Menu buttons to adjust the individual controls as desired.





SYSTEM AUDIO OUTPUT CONNECTIONS

SYSTEM AUDIO OUTPUTS

The DPTV's System Audio Output jacks can be used for sound playback through an external audio amplifier or Dolby Pro Logic receiver.

BEGIN

1 Connect the R(ight) and L(eft) **SYSTEM AUDIO OUT** jacks on the DPTV to the R and L Audio Input jacks on your amplifier or sound system.

2 Turn DPTV ON and place the external amplifier system to the AUX INPUT mode (if applicable).

Note: Dependent upon the audio information received the DPTV outputs a straight two channel Left/Right stereo audio signal for output.



SMART HELP



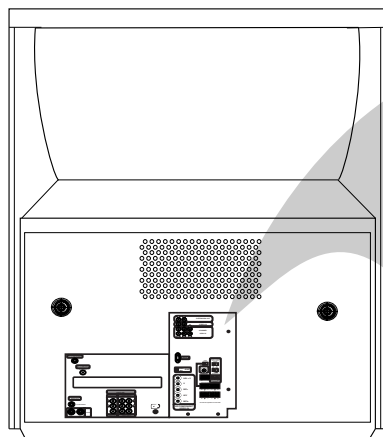
Note: To eliminate sound playback through the DPTV cabinet speakers when using an external amplifier audio connection you can either:

-Press the **MUTE** button on the remote to eliminate sound through the DPTV speakers
OR

-Place the **FRONT SPEAKERS** switch on the rear of the DPTV to the EXT(ernal) position, which will also eliminate the use of the Front External Speaker Out connection terminals on the DPTV.

Note: Using the Front Speakers switch alone does not shut off all the DPTV speakers, when they are used as a Center Channel or Surround sound playback source. In such cases, you may also need to reset additional speaker switches on the rear of the DPTV to completely shut the sound off from the DPTV cabinet speakers. See the "Internal TV Speakers Used as Center Channel" and "Center Channel Input Switch" section on page 40 for details.

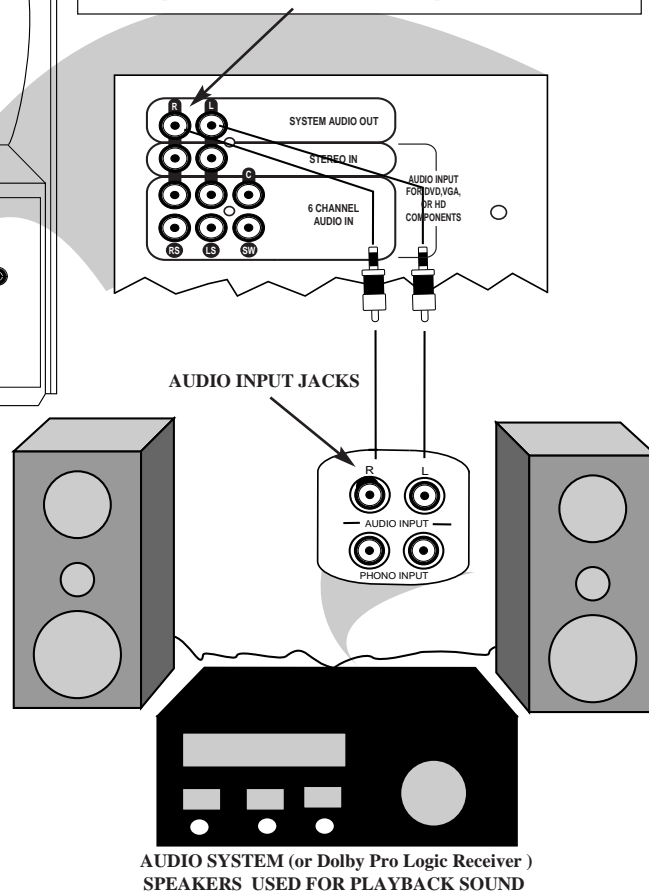
REAR OF DPTV



The **System Audio Out(put)** jacks send the DPTV's current audio (ATSC, NTSC, or Monitor) to an external amplifier for output. The advantage of such an additional System Audio Out connection (as shown in this diagram) is that it could continue to route the supplied audio signals from the DPTV to an external amplifier or Pro Logic Receiver (even when the selected program source switches between a digital ATSC program, NTSC, or Monitor supplied source). In the case of digital multichannel audio the DPTV downmixes the audio output to a straight 2-channel stereo signal.

Note: For best audio reproduction and playback of Dolby Digital surround sound through a Pro Logic Receiver (when using the System Audio Out jacks):

- place the REAR SPEAKER DELAY control (located in the DPTV's ATSC Speakers Menu) to the maximum "15 feet or more" setting
- place the Center Channel Delay control (located in the DPTV's ATSC Speakers Menu) to the "Back 2 feet" position





DTV SETUP (AUTOPROGRAM)

Once connected to receive digital ATSC broadcast signals, available area channels can be added into the DPTV's channel scan memory by the use of the DTV Setup Menu.

Note: Refer to the HD6400W Quick Use guide for additional information on digital channel programming and direct ATSC channel selections or access.

(BEGIN)

1 Select DTV Setup control.

With the DTV Main Menu on-screen, move the highlight with the MENU ▲▼ buttons. Then press the MENU (or ok) button.

2 Press the MENU ▲▼ buttons

to select the Full Installation option, then press the Menu button.

The DPTV shows an Installing indicator bar on screen as the digital channels are added into scan memory.

"DTV Setup Complete" shows when the DPTV is through adding digital channels into memory.

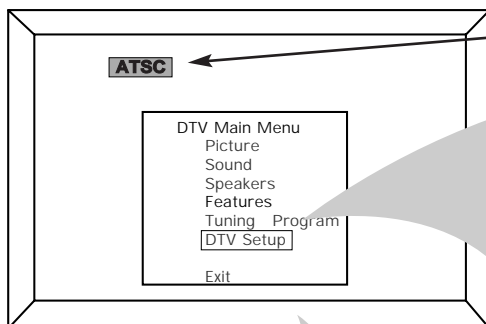
3 Press the "exit" (or Menu) button to clear the screen.



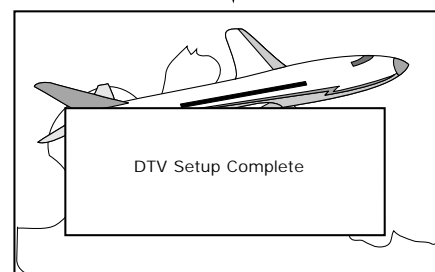
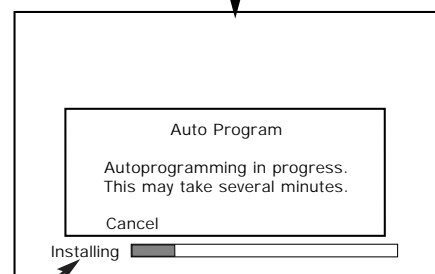
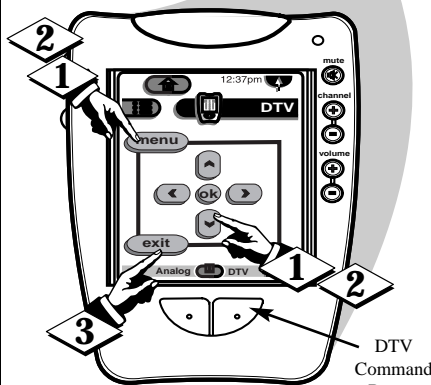
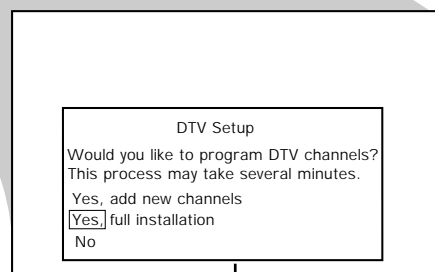
SMART HELP



Note: With the "full installation" Auto Program option the DPTV rewrites its entire digital channel scan "map" currently held in memory. The "add new channels" Auto Program option allows you to retain the current DPTV channel scan memory map, and include only the new digital channel stations as they become available for selection.



Press the remote's "DTV" Command mode button (or the "Source" button on the DPTV's local keyboard) to select the ATSC operating mode.

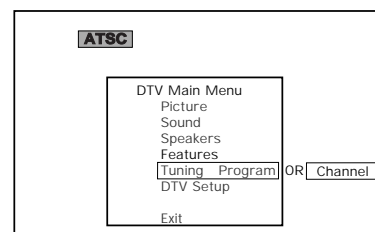


Program and System Information (PSIP)

- Note: Standards were devised as part of the ATSC system to allow TV stations to transmit **Program Service Information Protocol (or PSIP)** for DTV channels. This information system enables stations to broadcast various electronic on-screen program guides (in order to inform digital TV viewers of station channel locations and availability of programs); as well as allowing for the reception of signal coding necessary for digital audio processing and Parental Content Advisory system for movies and TV programming.

TUNING PROGRAM/CHANNEL MENU

- The DPTV's "Tuning - Program or Channel" Menu control allows you to switch between either tuning to a specific physical channel (direct tune); or using the DTV Setup list of programmed channels (or the "installed" channel map) without the loss of previously stored PSIP channel encoded information (see explanation given above). If, for instance, a new program is located during the use of the direct access "Tuning - Channel" search mode of operation, the viewer could easily add the new channel number into the memory code list of the DPTV by the use of the "Add/Delete Channels" control found under the FEATURES MENU option.





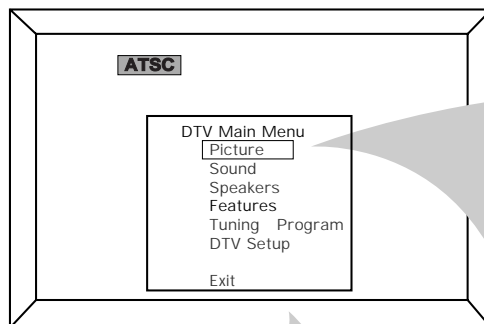
COLOR, BRIGHTNESS, SHARPNESS, TINT, PICTURE

To adjust your ATSC color and picture controls, select a digital channel and follow the steps shown below:

BEGIN

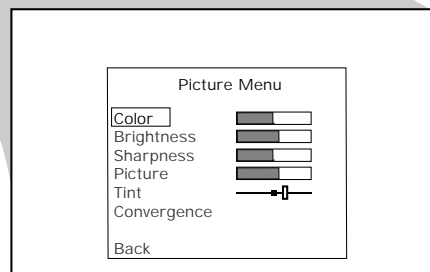
1 Select the ATSC Picture Menu.

With the DTV Main Menu on-screen, move the highlight with the MENU ▲▼ buttons. Then press the MENU (or ok) button.



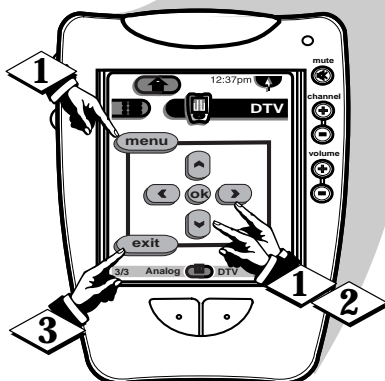
2 Press the Menu ◀ or ▶ arrow buttons to adjust the selected picture or color control.

Press the Menu ▲▼ buttons to move up and down the list of on-screen Picture controls.



Control settings are at normal mid-range levels when the bar scale is centered.

3 Press the “exit” button to clear the screen.



SMART HELP



Color Press Menu ◀ or ▶ to add or eliminate color.

Brightness Press Menu ◀ or ▶ until dark parts of the picture show good detail.

Sharpness Press Menu ◀ or ▶ to improve detail in the picture.

Picture Press Menu ◀ or ▶ until whitest parts of the picture are as bright as you prefer.

Tint Press Menu ◀ or ▶ to obtain natural skin tones.



RED/BLUE CONVERGENCE

Convergence is the correct lining up of the red and blue light paths on the DPTV screen.
NOTE: If no color fringing (see Smart Help) shows, then no Convergence adjustments are necessary.

BEGIN

- 1 Select the ATSC Convergence control.

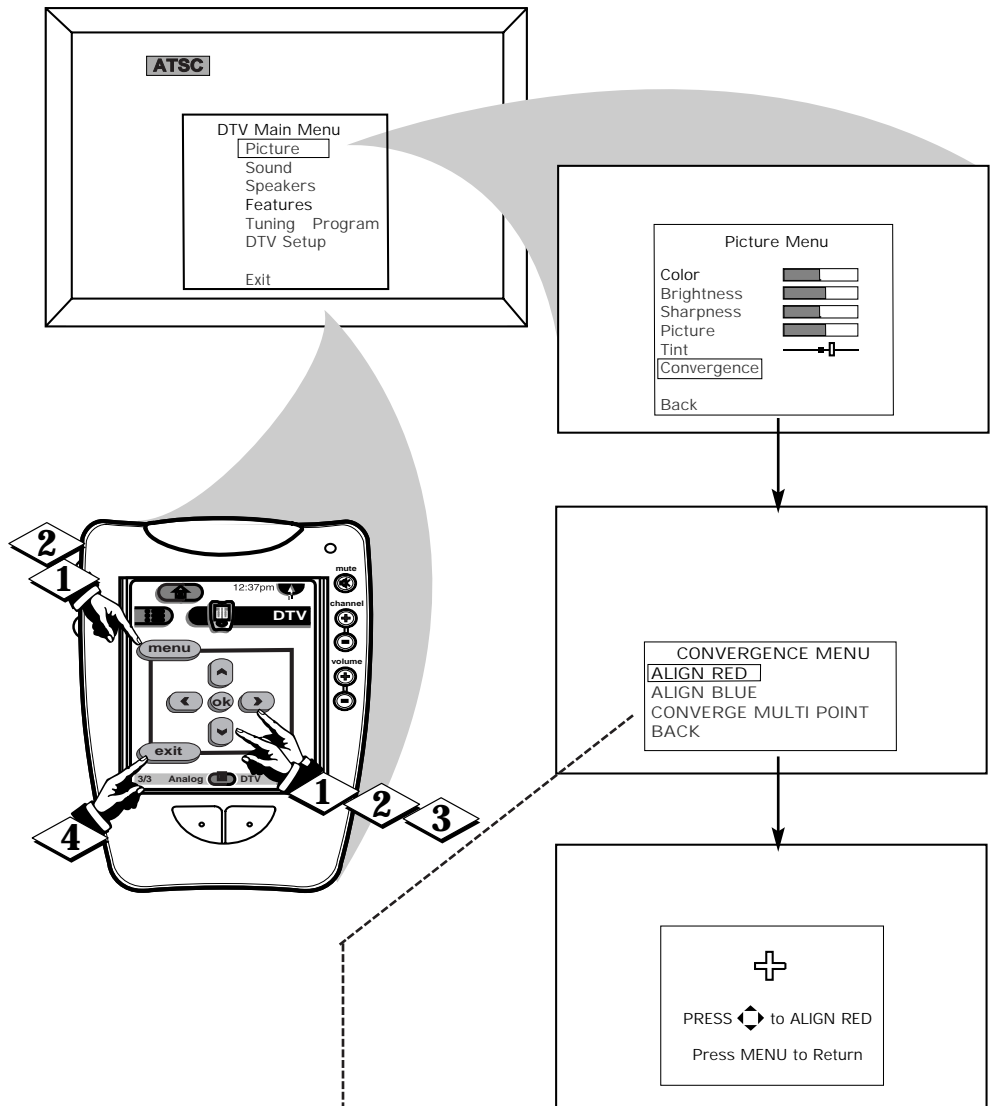
With Picture Menu on-screen, move the highlight with the MENU ▲▼ buttons. Then press the MENU (or ok) button.

- 2 Press the MENU ▲▼ buttons to select either the Align Red or Align Blue Convergence control, press the MENU button to continue.

- 3 Press the MENU ◀▶ buttons to move the selected red (or blue) convergence cross directly over the white cross on the DPTV screen.

The red (or blue) cross is properly adjusted when it is completely merged with the white cross. (No color appears around the edge of the white cross).

- 4 Press the “exit” button to clear the screen when convergence adjustments are complete.



SMART HELP

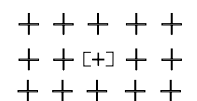
Remember, Convergence has been set at the factory for best viewing, but if one or more of the (red or blue) colors appear around the edges of objects (color fringing) follow the steps given in this section.

NOTE: Adjustments for “Multi-Point” on-screen color fringing can also be made as part of the DPTV’s Convergence control system. Follow the on screen menu directions to select individual screen areas that can be readjusted and set for varying red/blue color fringing conditions. These multi-point settings can then be “Saved” to memory for the specific areas of the DPTV screen (or Factory Settings for convergence can be recalled and put back into place for use).

MULTI-POINT CONVERGENCE CONTROLS

CONVERGENCE MULTI POINT
 CONVERGE RED POINTS
 CONVERGE BLUE POINTS
 RESTORE FACTORY SETTINGS
 SAVE ADJUSTMENTS
 BACK

CONVERGE RED POINTS
 USE ◀▶ TO ADJUST
 DIGIT 2, 4, 6, 8 TO MOVE CURSOR
 MENU TO RETURN
 PRESS MENU NOW TO CONTINUE





SURROUND SOUND

By adding optional external speakers to the DPTV's sound system, you can create the feeling of reflected sound that surrounds you at a movie theater or concert hall.

BEGIN

- 1 **Connect both external speakers** to the speaker wire terminals on the DPTV.

Recommended speakers: 25W, 8 ohm minimum. Be sure the (+) and (-) speaker wires are connected to the correct R(ight) and L(ef) speaker terminals on the DPTV.

- 2 **Place the speakers** so the viewing area is between the DPTV and the rear surround speakers. (See overhead view drawing on this page.)

- 3 **Turn DPTV ON.** After setup whenever a stereo signal is received the audio will be heard in Surround Sound.

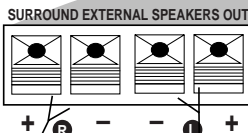


SMART HELP



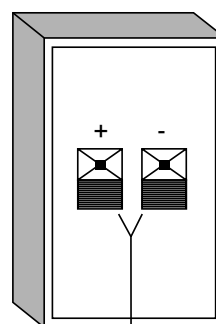
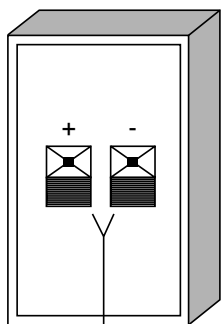
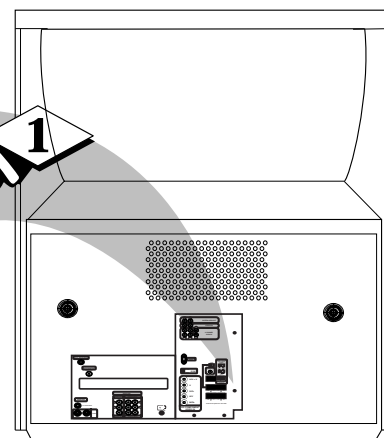
Note: The rear Surround Sound speakers will not be heard at the same volume level as the front DPTV speakers. It is intended for the rear speakers to give a background noise effect which requires a lower volume level than the DPTV's front speakers.

REAR SURROUND SOUND SPEAKER TERMINALS (Operational only in ATSC or Monitor Display modes)



All External Speakers
25W, 8 ohms Min.

REAR OF DPTV



REAR SURROUND SOUND SPEAKERS

- Note: Surround Sound will not work with only one speaker connected; or with monaural audio playback source

DPTV



REAR SPEAKER

REAR SPEAKER



PRIMARY VIEWING AREA



SURROUND SOUND

The Surround Sound control option allows you to select the type of sound mode sent to the DPTV's speaker system.

BEGIN

1 Select the ATSC Sound Menu.

With DTV Main Menu on-screen, move the highlight with the MENU ▲▼ buttons. Then press the MENU (or ok) button.

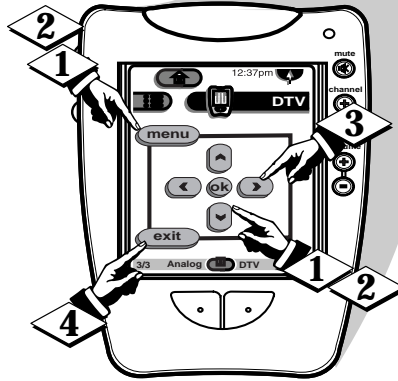
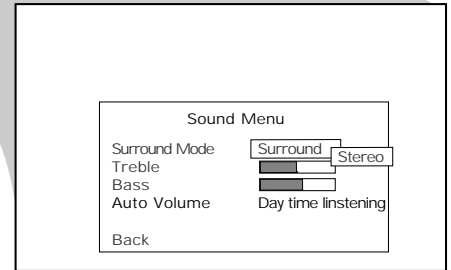
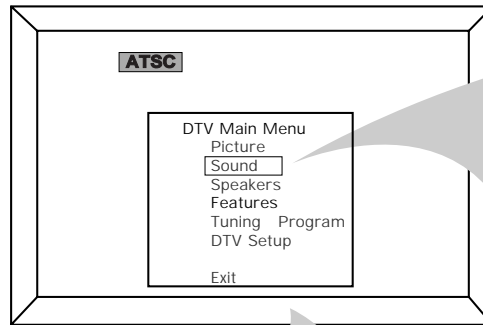
2 Press the MENU ▲▼ buttons

to select the Surround Mode control.

3 Press the Menu ◀ or ▶ buttons

to select the Surround (or Stereo) mode for DPTV sound playback. (See the Surround Sound information box to the right for further details on the feature and its use.)

4 Press the "exit" button to clear the screen.



Surround Mode -

- **Dolby Digital 5.1** sound is processed normally directing discrete channel audio sound to 6 speakers (DPTV Front Right/Center/Left speakers; two rear Surround speakers; and one Subwoofer low frequency speaker.)
- **For any two channel plain stereo audio** (arriving within the ATSC Dolby Digital carrier signal) the DPTV processes the audio to play standard stereo in the Left/Right Front DPTV speakers only.

Stereo Mode -

- **Left/Right audio input signals** are directed to the DPTV's two front L/R speakers.
- **ATSC Dolby Digital** multichannel sound signals are downmixed to two channels and sent to the Front Left/Right DPTV speakers.

DOLBY DIGITAL SURROUND

In order to receive the full reproduction capability of true Dolby Digital Surround Sound you require the proper use and arrangement of a Subwoofer and surround speakers. The DPTV's extra speaker connections make it possible to create a multichannel soundfield effect previously available only within a movie theater or concert hall. With the new 5.1 discrete digital channel surround sound system the listener can now attain a true soundstage realism for audio signal separation, imaging, and pinpoint sound placement.

Note: If the Front External Speaker Out terminals are used for Left/Right audio channel playback of Dolby Digital material, the FRONT SPEAKER slide switch on the rear of the DPTV must also be placed to the EXT(ernal) position in order for the connection and signal routing to operate properly.

Subwoofer Speaker
- (powered) -

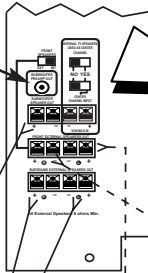
Suggested or equivalent optional subwoofer speakers for use:

- Velodyne - VAIC120 (12", 120W)
- Infinity - INI BU120 (12", 120W)
- JBL - PSWD110 (10", 100W)

Subwoofer Speaker
- (nonpowered) -

- 25W, 8Ω Min.
- Ask your dealer about subwoofer and surround sound speakers suggested for use with your DPTV.

REAR OF DPTV



Front External Speaker
(25W, 8Ω Min.)

Front External Speaker
(25W, 8Ω Min.)

Rear Surround Speaker

Rear Surround Speaker

- **Left/Right Front External speakers** can be used in substitution for the DPTV internal cabinet speakers if desired. (See the "Front Speakers Switch" note in the section to the left for an explanation.)
- **Subwoofer speaker connections** are available on the rear of the DPTV for either powered, or non-powered, types of optional Subwoofer speakers. Contact your Philips dealer for further details on Dolby Digital Surround Sound system speakers and their use.



DOLBY DIGITAL SURROUND ADDITIONAL CONNECTIONS

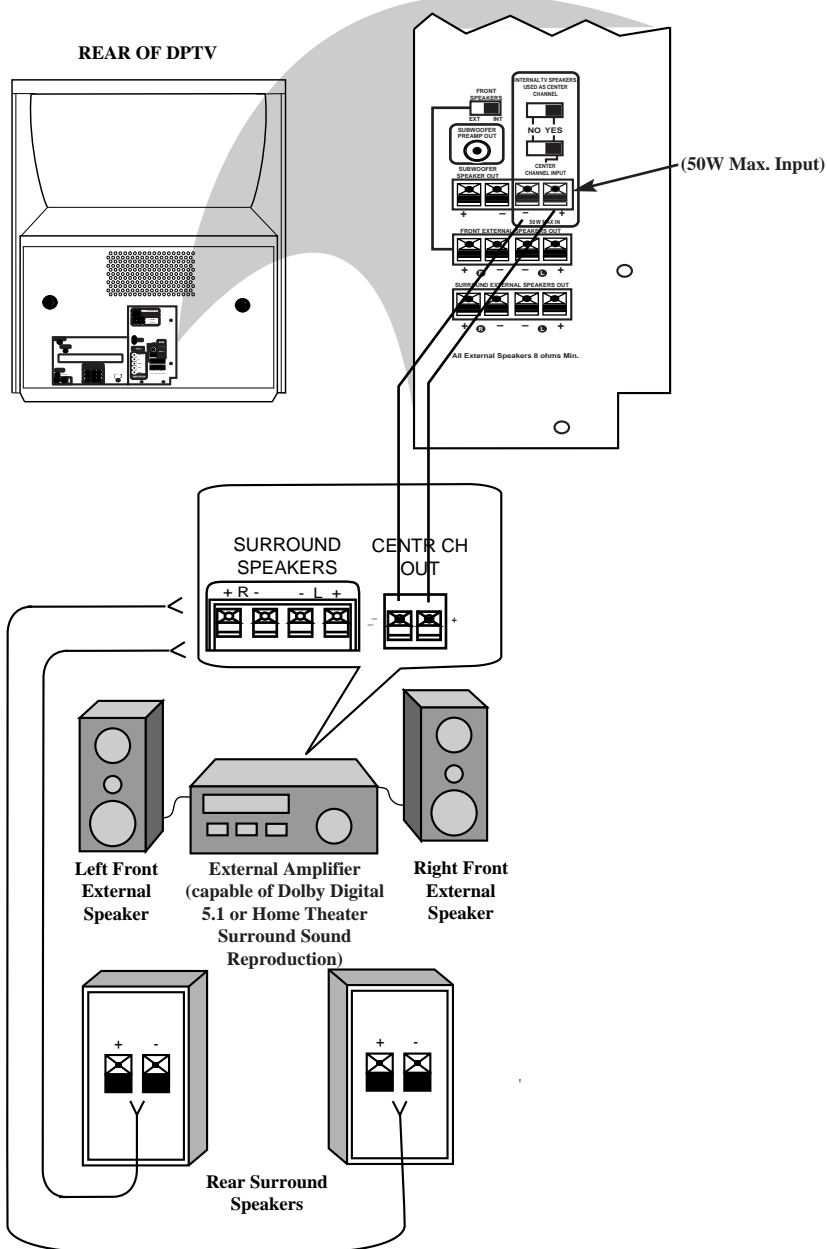
A Center Channel Input terminal is also located on the rear of the DPTV for additional Dolby Digital Surround sound connection options. This input can be used to connect an external Dolby Digital, or Home Theater Surround Sound, capable Amplifier (with Center Channel output) in order to play Center Channel sound through the DPTV's internal cabinet speakers.

For example: With the use of an external Amplifier capable of Dolby Digital 5.1 (or Home Theater Surround Sound) the Front (Left/Right), Center, and Rear (Left/Right) Surround system speakers have their signals supplied by the connections located on the rear of the Amplifier.

Note: When an external Amplifier is used as the audio playback source for the DPTV's Center Channel Input terminals:

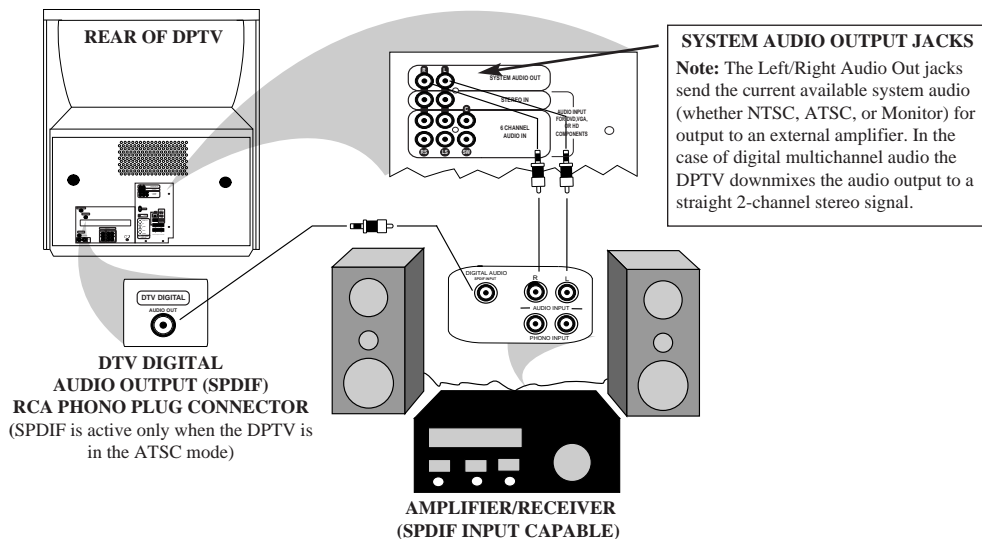
- Place the DPTV's "INTERNAL TV SPEAKERS USED AS CENTER CHANNEL" switch and the "CENTER CHANNEL INPUT" switch to the YES position in order for the connection and Center Channel speaker playback to function properly.

These two slide switches are used in tandem and should both be kept in either the YES position (when the DPTV is used for Center Channel Input playback), or the NO position (when the DPTV uses its own internal speaker system for Surround sound purposes).



SONY-PHILIPS DIGITAL INTERFACE FORMAT

SPDIF is the term used for ATSC module digital audio that can be routed to an auxiliary amplifier that accepts such an input signal. The DTV Digital Audio Out(put) jack on the rear of the DPTV is for the connection of SPDIF audio compatible external amplifiers or home theater equipment.





BASS, TREBLE

*The DPTV also has individual sound adjustment controls for the ATSC system audio. The **BASS** (low frequency) and **TREBLE** (high frequency) controls may be used to adjust the sound of ATSC TV programs, or other external playback source material.*

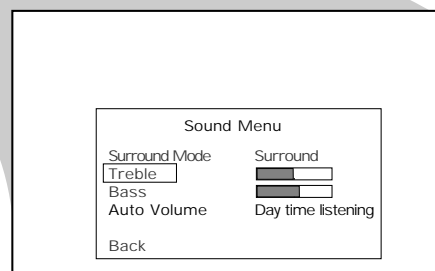
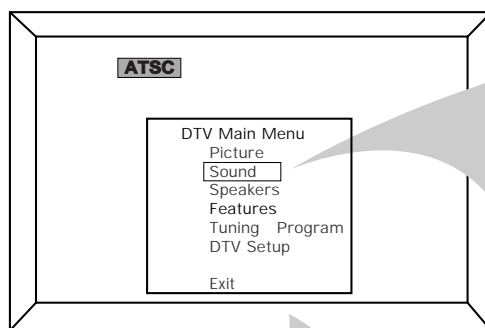
BEGIN

- 1 Select Bass or Treble sound control.

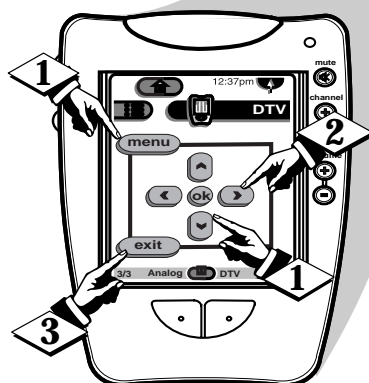
With the Sound Menu on-screen, move the highlight with the MENU ▲▼ buttons. Then press the MENU (or ok) button.

- 2 Press the MENU ◀▶ arrow buttons to adjust the sound control to levels you prefer.

- 3 Press the “exit” button to clear the screen.



Treble and Bass are set to factory midpoint or default levels when the barscale adjustments are placed to the center detent position.



AUTO VOLUME

Performing a function similar to the AVL sound control (in the NTSC operating mode) the Auto Volume control applies certain value levels to variables within the Dolby sound standard in order to achieve dynamic audio range compression. This single value setting by the Auto Volume control allows for a more consistent, even sound reproduction in the playback of ATSC audio.

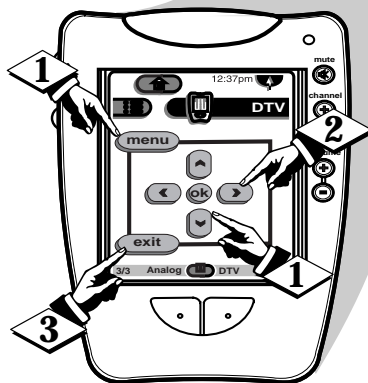
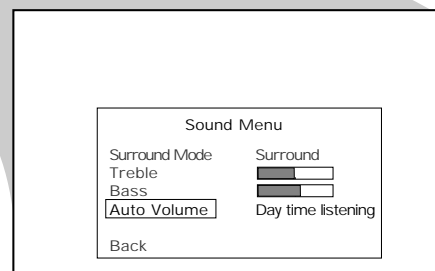
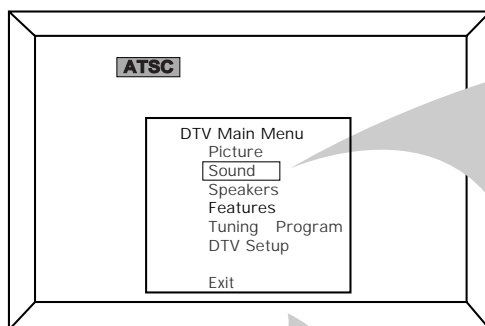
BEGIN

- 1 Select Auto Volume sound control.

With the Sound Menu on-screen, move the highlight with the MENU ▲▼ buttons. Then press the MENU (or ok) button.

- 2 Press the MENU ◀▶ arrow buttons to set the Auto Volume control to Day Time Listening (for non-compressed full range audio signals); or Night Time Listening to receive a compressed ATSC audio signal.

- 3 Press the “exit” button to clear the screen.



SPEAKERS

The Speakers Menu involves various setup and function aspects of multichannel speaker configurations possible within Dolby Digital Surround Sound system playback. Basically, the Speakers Menu controls deal with distinct “one-time” settings for such items as speaker volume levels and sound delay (as related to speaker distance and listening room size dimensions).

(BEGIN)

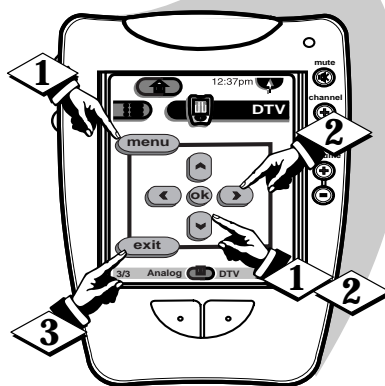
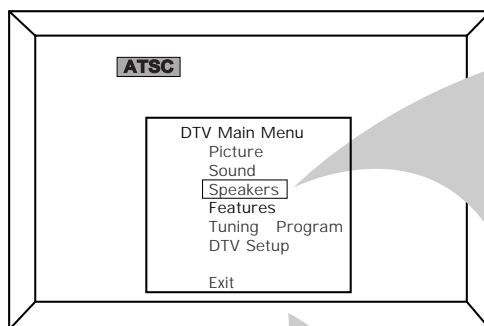
1 Select the ATSC Speakers Menu.

With the DTV Main Menu on-screen, move the highlight with the MENU ▲▼ buttons. Then press the MENU (or ok) button.

2 Press the Menu ◀or▶ arrow buttons to adjust the selected Speaker adjustment control.

Press the Menu ▲▼ buttons to move up and down the list of individual Speaker Menu controls. (See the Speaker Menu information box to the right for detailed descriptions on the select controls.)

3 Press the “exit” button to clear the screen.



Speaker Menu		
Center	Delay	Front in Line
Front	Left	
	Right	
Rear	On/Off	On
	Left	
	Right	
	Delay	15 feet or more
Test Tone	Off	
Subwoofer Level		
Back		

Center

- **Delay** - control allows the user to adjust center channel speaker sound for situations where external Left/Right speakers are in use and their relative distance/position from the DPTV's internal cabinet speakers may vary. (See pages 39 and 40 for further details on front external speakers, amplifier surround systems, and the use of the DPTV as a source for center channel speaker sound.)
- **Front in Line** - is for the speaker arrangement where the center, left, and right speakers are evenly lined up and roughly equidistant from the user.
- **Forward 1 foot (2 feet/ 3 feet)** - settings compensate for a center speaker being placed a few feet *in front* of the external left and right speakers.
- **Back 1 foot (2 feet)** - settings compensate for a center speaker being placed a few feet *behind* the position of the external left and right speakers.

Front

- **Left** - control adjusts the volume level of the DPTV's left front internal cabinet speaker (or the Left Front External Speakers Output terminal source on the rear of the DPTV).
- **Right** - control adjusts the volume level of the DPTV's right front internal cabinet speaker (or the Right Front External Speakers Output terminal source on the rear of the DPTV).

Rear

- **On/Off** - control allows the user to turn the rear surround sound signals On or Off to the Surround External Speaker Output terminals on the rear of the DPTV.
- **Left** - control adjusts the volume level of the DPTV's left rear surround sound speaker (as connected through the Left Surround External Speaker Output terminal on the rear of the DPTV).
- **Right** - control adjusts the volume level of the DPTV's right rear surround sound speaker (as connected through the Right Surround External Speaker Output terminal on the rear of the DPTV).
- **Delay** - control adjusts rear surround sound to compensate for room size and how far the rear surround speakers are located behind the system user (Less than 3 feet; 3-5 feet; 5-8 feet; 8-12 feet; 12-15 feet; 15 feet or more).

Test Tone

- **On/Off** - allows the use of a test tone signal in order to help set the volume levels for the individual channel DPTV audio system speakers. (See the following page for details on the use of the test tone speaker adjustment process.)

Subwoofer Level

- Adjusts the volume level of a subwoofer speaker (as connected through the Subwoofer Speaker Output terminal on the rear of the DPTV).
Note: The DPTV's additional Subwoofer Preamp Output plug provides a variable line level signal intended for an external “powered” subwoofer capable of its own volume level adjustments.

SMART HELP



Note: Other speaker configuration slide switch controls are also located on the rear of the DPTV. The FRONT SPEAKERS and CENTER CHANNEL INPUT switches direct the use and audio signal routing for the DPTV's internal cabinet speakers and external output speaker terminals. (See pages 39 and 40 for further details on the location and use of these additional audio speaker controls.)



TEST TONE

The Test Tone Speaker Menu control generates a sound test signal that can be used to adjust individual DPTV speakers to desired volume levels. The Test Tone signal will be directed to each audio speaker channel separately (both internal DPTV cabinet speakers and external Speaker Output terminal connections) when the control is turned On.

(BEGIN)

1 Select Test Tone sound control.

With the Speakers Menu on-screen, move the highlight with the MENU ▲▼ buttons.

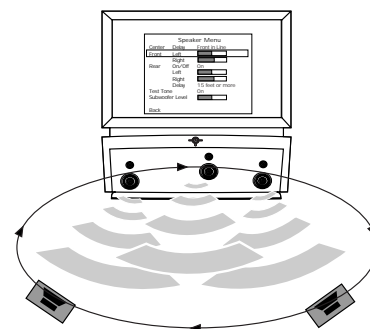
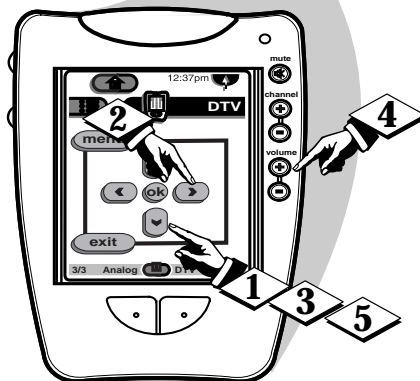
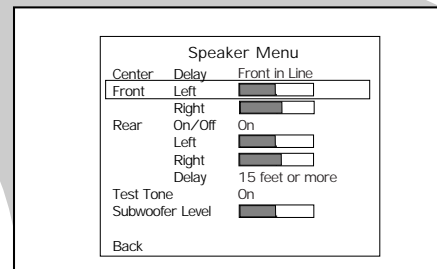
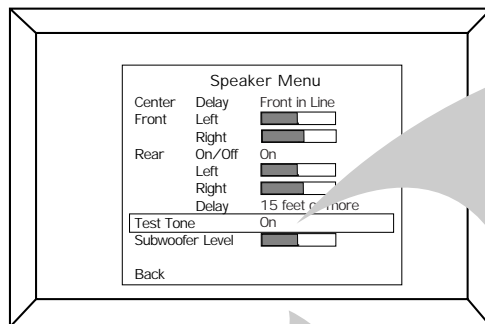
2 Press the MENU ◀▶ arrow buttons to turn the Test Tone control ON.

3 With the Test Tone speaker signal active, press the MENU ▲▼ arrow buttons to select the desired DPTV system speaker for individual volume level adjustment (for example: Front/Left, Rear/Right, etc.).

4 Press the MENU ◀▶ arrow buttons on the remote, or the Volume (+, -) buttons on the DPTV's local keyboard, to adjust the selected speaker volume levels.

Continue and select the other DPTV system speakers for adjustment as desired.

5 Press the MENU ▲▼ arrow buttons to return to the Test Tone Menu control when speaker adjustments are complete and turn the control Off.



Test Tone signal circulates through the speaker system in a clockwise direction, and is meant to be used with the adjustable Speaker Menu "barscale" controls (such as Front Speaker Left/Right and Rear Speaker Left/Right). Once turned On, the Test Tone will continue to circulate through the Front and Rear speakers (even when other sound controls are selected, such as Subwoofer, which are not adjustable within the Test Tone mode.)



CAPTIONS FORMAT

The Captions Format control is used to set the DPTV to receive the ATSC mode Closed Caption (CC) feature. ATSC Closed Caption presents the viewer with program dialogue and conversations as written on-screen “text box” windows.

BEGIN

1 Select the ATSC Features Menu.

With the DTV Main Menu on-screen, move the highlight with the MENU ▲▼ buttons. Then press the MENU (or ok) button.

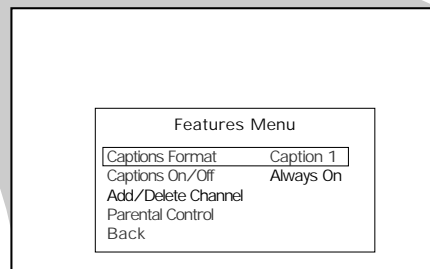
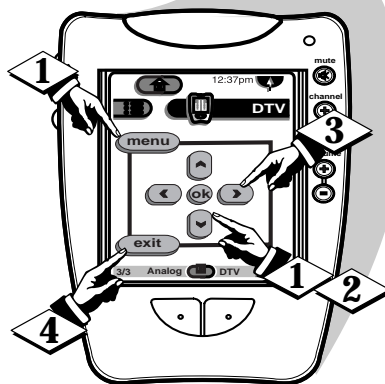
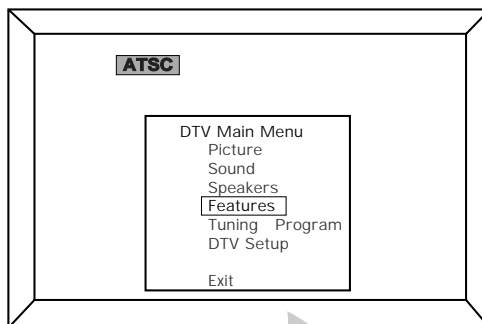
2 Press the Menu ▲▼ arrow buttons to select the Captions Format control.

3 Press the Menu ◀▶ arrow buttons to select the desired Closed Caption format mode. (Captions 1,2,3,4 and Text 1,2,3,4 modes are available for selection.)

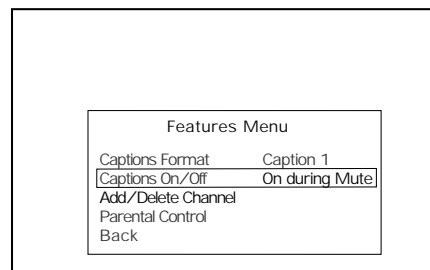
Note: As in the NTSC system not all CC modes will currently be active or available for all program selections. Check your local listings for CC program details.

4 Press the “exit” button to clear the screen. The selected Closed Caption mode will be active (with the Captions On/Off control also set to the “Always On” position.

To cancel, set the Captions On/Off control to “Always Off.”



Note: The added resolution of active scan lines for DTV (720p or 1080i) broadcasts, as opposed to analog NTSC TV (525), can also provide for more defined Closed Caption system character fonts and objects. The ATSC display window for CC may be more on the level of a computer with text windows containing a variety of colors, size, and other object attributes.



Note: The “On during Mute” setting under the Captions On/Off control can be used to set the DPTV to turn the current selected Closed Caption mode (example: Caption 1) “ON” whenever the MUTE button on the remote is pressed.

SMART HELP



Due to the increased data capacity within the DTV broadcast system (10 times the capacity of the analog NTSC system) the ATSC version of Closed Caption will allow for simultaneous transmission of multiple languages and offer various reading level options for the captioned material (when available).



ADD/DELETE CHANNEL

The DTV Setup Menu control (see page 35) autoprograms all available signal ATSC digital channels into the DPTV's scan memory. Use the Add/Delete Channel control to eliminate or add to the specific list of "major" channels contained within the DPTV's scan memory.

Note: Refer to page 5 in the HD6400W Quick Use guide for additional information on "major and sub-channel" digital channel selections and how they are used within the ATSC broadcast system.

(BEGIN)

1 Select the ATSC Features Menu.

With the DTV Main Menu on-screen, move the highlight with the MENU ▲▼ buttons. Then press the MENU (or ok) button.

2 Press the Menu ▲▼ buttons to select the Add/Delete Channel control. Then press the MENU button.

3 Press the CHANNEL (+)/(-) (or number buttons on the remote's 2/3 touchscreen display) to select the channel you want to add or delete.

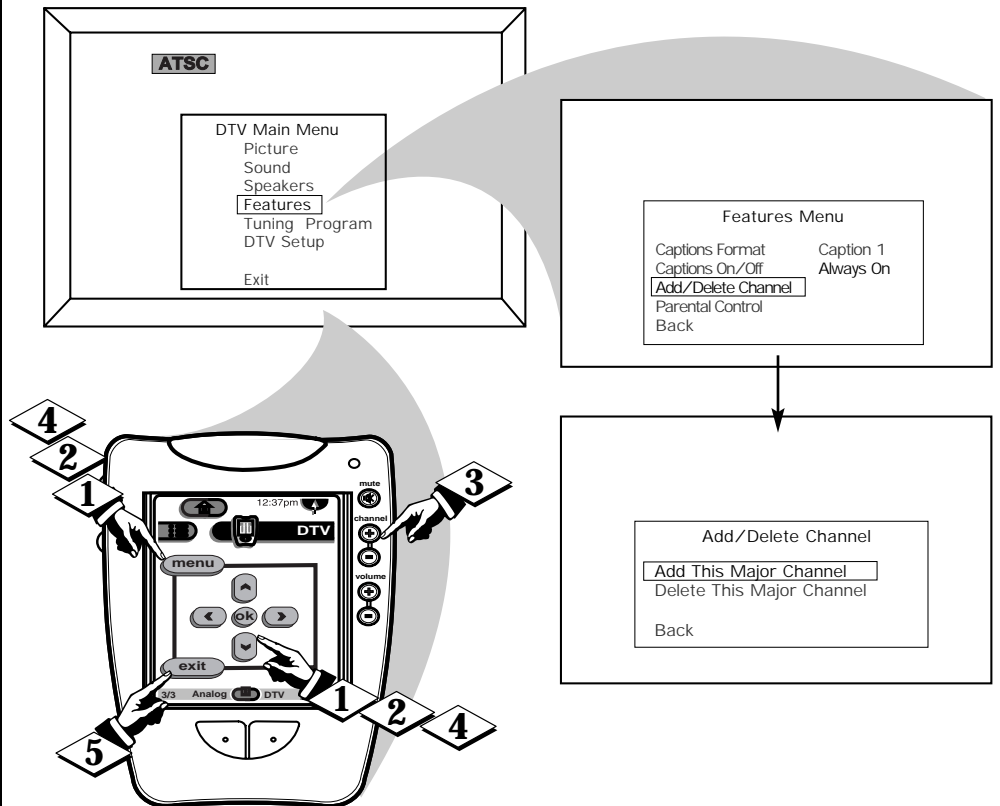
4 Press the MENU ▲▼ buttons to select "Add this Major Channel" control option, and then press the Menu button to add the specific digital channel into the DPTV's scan memory.

OR

Press the MENU ▲▼ buttons to select "Delete this Major Channel" and press the Menu button to drop the digital channel from the DPTV's scan memory.

Repeat steps 2, 3 and 4 for each channel you wish to add or delete.

5 Press the "exit" button to clear the screen when complete.



PARENTAL CONTROL


SETUP CODE NUMBER

Parental Control allows parents to block out, or "censor", any channels they think children should not watch. A channel placed under Parental Control cannot be viewed until a correct access code is used to unlock the channel for viewing.

First let's set your Parental Code:

(BEGIN)

1 Select the PARENTAL CONTROL.

With FEATURES MENU on screen, move the RED highlight with the MENU  buttons. Then press the MENU (or ok) button.

"CHANNEL BLOCKING" and "SETUP CODE" show on screen.

2 Press the MENU and MENU (or ok) buttons to highlight and select the SETUP CODE item.

3 Press 0, 7, 1, 1 on the remote.

"XXXX" shows on the ACCESS CODE SETUP screen as you press the number buttons.

"INCORRECT ACCESS CODE - TRY AGAIN" will also show on the screen.

4 Press 0, 7, 1, 1 on the remote again.

"Next Enter Your New Access Code" shows on the screen.

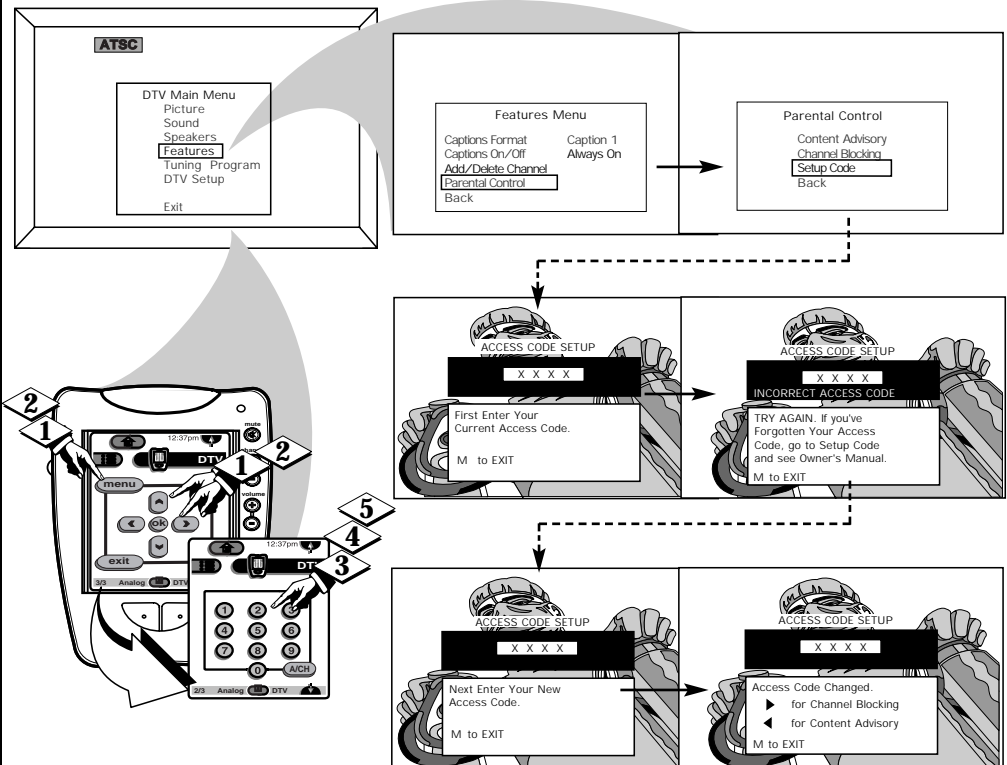
5 Enter a new four digit number code using the remote.



"Access Code Changed" shows on the screen to let you know the new code has been set.

Continue to the next page to find out how to "BLOCK" channels from viewing.


NOTE: Your TV left the factory with the Parental Code set to "0000". If you are using your TV and the Parental Control for the first time, and don't want to SETUP a new Access code number, you can use the "0000" number to block channels - see next page.

The "0711" Parental Code (shown on this page) is given as a default or way to reset the Code when the current Access number is not known. Also, once set, the same Access Code Number will apply for the use and operation of the Parental Control system found in both the NTSC/Analog and the ATSC/Digital Feature Menu control areas.



- Press MENU  to go on and start to "block" channels.
- Press MENU  to go to "Content Advisory" (or TV and Movie Ratings system of channel blocking).
- Press MENU to return to the Parental Control Menu screen.
- Press STATUS to clear the screen.

SMART HELP

 Parents - it isn't possible to unlock or defeat your Censor Code without changing to a new code number. So if your Code number changes, and you didn't change it yourself, then you will know that someone has altered the code and the blanked out channel has been viewed.



PARENTAL CONTROL CHANNEL BLOCKING

After your personal Parental Code number has been set (see previous page), you are now ready to select the channels you want to block out or censor.

BEGIN

1 Select the PARENTAL CONTROL.

With FEATURES MENU on screen, move the RED highlight with the MENU buttons. Then press the MENU (or ok) button.

2 Press the MENU and MENU (or ok) buttons to highlight and select the BLOCK CHANNELS item.

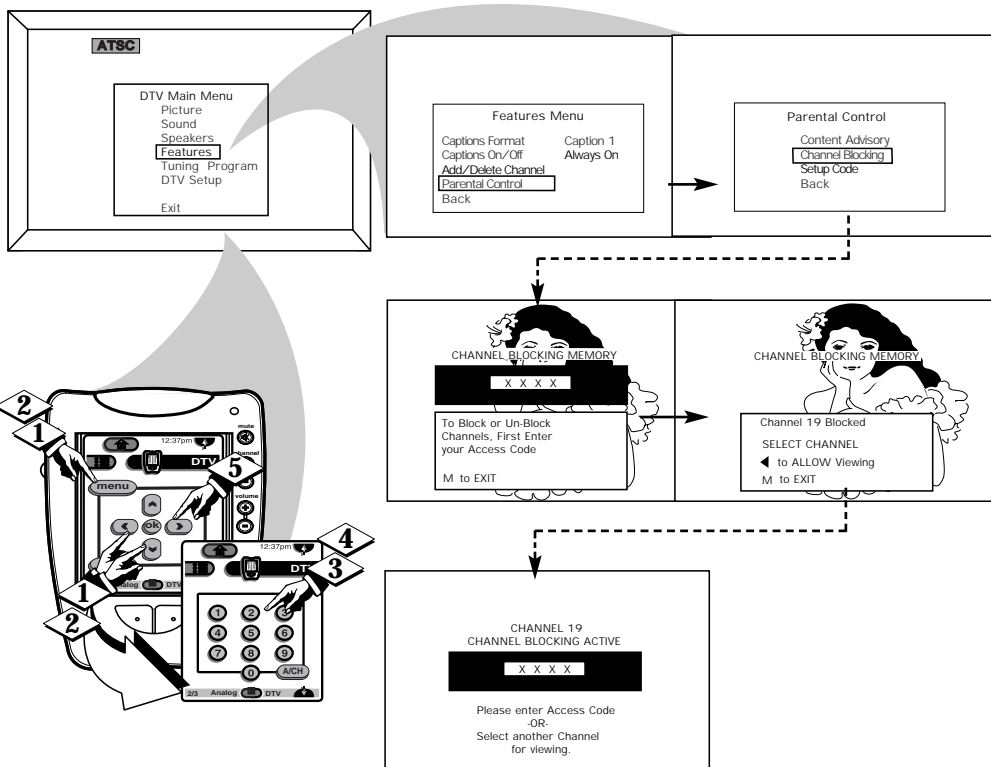
3 Enter the correct Parental Code number.

4 Press Channel or Channel Number buttons to select the channel you want to block.

5 Press the MENU button to "BLOCK VIEWING" on the selected channel. Press the MENU button to "ALLOW VIEWING" on a blocked channel.

Repeat steps 3 and 4 for any other channels you wish to block out.

STOP



BLOCKED CHANNEL SCREEN MESSAGE

(Appears when an attempt to select a blocked channel is made and Parental Control is ON.)

SMART HELP



Remember, to make DPTV viewing easier all channels will be unblocked, once the correct Parental Code number has been entered.

When the DPTV is turned OFF and then back ON again, is when Parental Control is back in place for all blocked out channels.



PARENTAL CONTROL CONTENT ADVISORY

Another new area available to parents for the censoring of program material is through the TV Guidelines and Movie Ratings system. Program Content Advisory data will soon be contained within the broadcast signals of received TV programs. When setup by the parent or viewer, the TV can respond to transmitted advisory data by blocking out or denying access to TV shows (based on whether the program meets or exceeds the limitations you select as viewable). The TV program can then only be viewed by entering the correct and current Parental Code Access number.

The Content Advisory system uses both "Movie Ratings" and a "Parental Guidelines" form of censoring. Refer to the following page sections for explanations on the different Rating system levels and their uses.

BEGIN

1 Select the CONTENT ADVISORY Menu option

With PARENTAL CONTROL Menu on screen, move the RED highlight with the MENU (◀▶) buttons. Then press the MENU (or ok) button.

A Parental Guideline/Movie Rating status screen will appear with a review of currently BLOCKED Content Advisory categories.

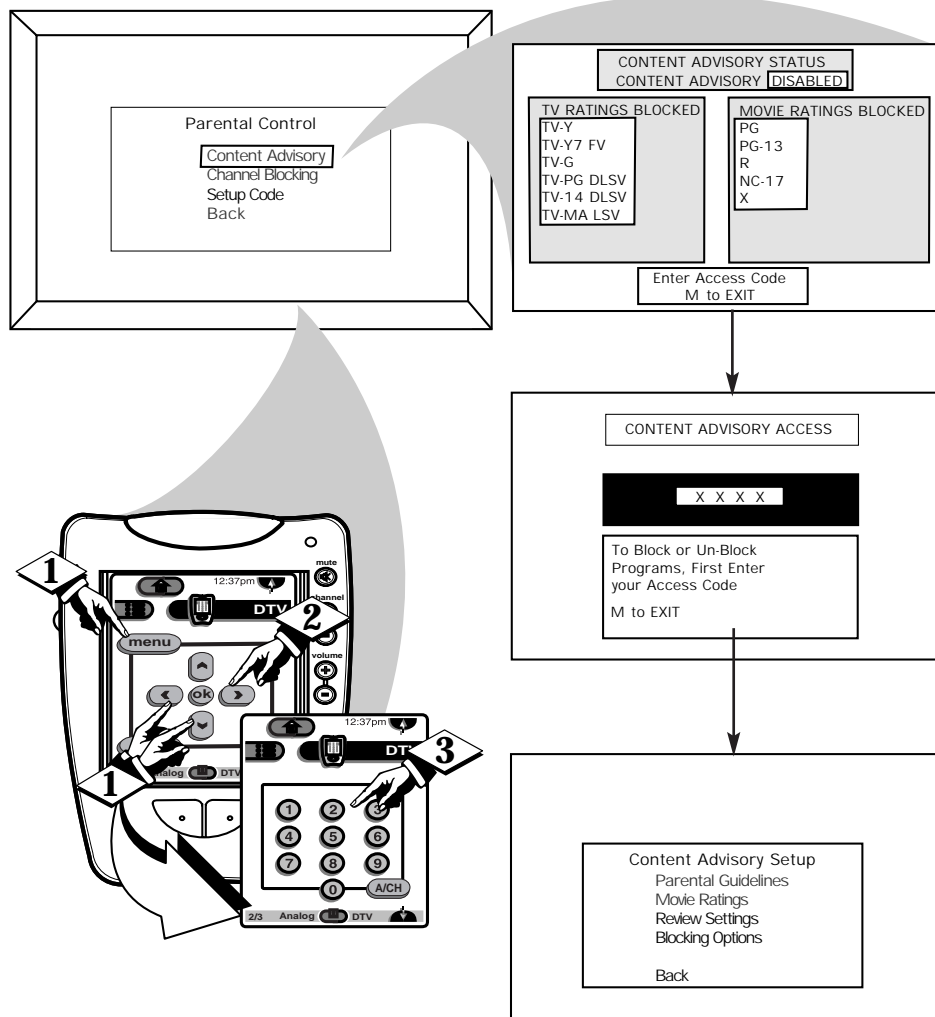
2 Press the MENU ► button to select the ENTER ACCESS CODE Menu item.

3 Enter the correct Parental Code number (see note at the top of this page).

"CONTENT ADVISORY" Menu screen appears. Parental Guidelines, Movie Ratings and other blocking control items are ready for selection and use.



Note: Please remember that a valid and current Access Code number will be required in the setup and use of the TV's "Content Advisory" system. Review the previous **SETUP CODE** section on how to obtain a valid Parental Access Code number before attempting to make adjustments within the Movie Ratings and Parental Guidelines system.



CHANNEL 8
BLOCKED BY CONTENT ADVISORY
TV GUIDELINES TV-14 D

X X X X

Please enter Access Code
-OR-
Select another Channel
for viewing.

NOTE: In normal Content Advisory system operation the TV screen will display a message when programming is blocked by a Movie Rating, Parental Guideline, or Blocking Option control feature. Entering the correct ACCESS CODE number will unblock all the blocked Content Advisory Rated channels until the TV is turned Off. The blocked Advisory Ratings will be back in place when the TV is turned back On again.



CONTENT ADVISORY MOVIE RATINGS

Movie Ratings set viewing access levels for TV programming according to current Motion Picture Association of America (MPAA) ratings. These ratings are similar to the categories used with the rated movies appearing in cinema theaters and with video rental material.

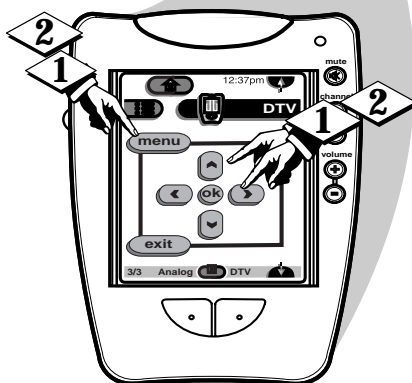
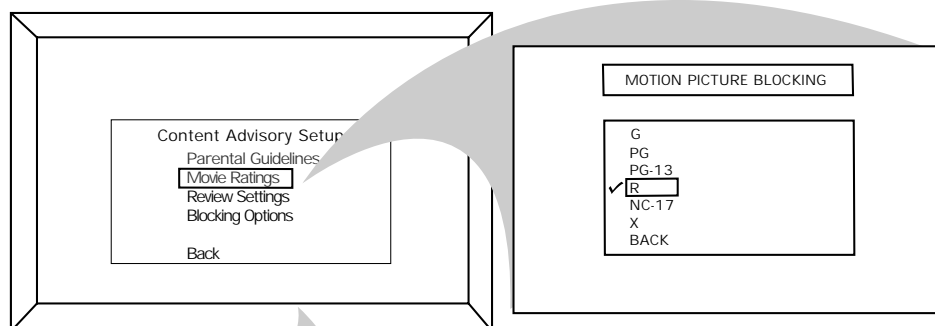
BEGIN

1 Select the MOVIE RATINGS Menu option.

With CONTENT ADVISORY Menu on screen, move the RED highlight with the MENU (◀▶) buttons. Then press the MENU (or ok) button.

2 Press the MENU ▲▼ and MENU (or ok) buttons to highlight and select (✓) the desired MOVIE BLOCKING level.

When in operation a “Blocked - Movie Rating” TV screen appears when movies are received which include the same selected rating as the Movie Blocking setting(s). Only the correct Access Code number, entered by the viewer, will unblock or allow the viewing of a block rated program.



- **G - General Audience:** Most parents would find this program suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.
- **PG - Parental Guidance:** This programming contains material that parents may find unsuitable for younger children. It may contain one or more of the following: Moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialogue.
- **PG-13:** This programming contains material that parents may find unsuitable for children under the age of 13. It contains one or more of the following: violence, sexual situations, coarse language, or suggestive dialogue.
- **R - Restricted:** This programming is specifically designed for adults. Anyone under the age of 17 should only view this programming with an accompanying parent or adult guardian. It contains one or more of the following: intense violence, intense sexual situations, strong coarse language, or intensely suggestive dialogue.
- **NC-17 - No one under 17 admitted:** This type of programming should be viewed by adults only. It contains graphic violence, explicit sex, or crude indecent language.
- **X - Mature audience only:** This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.

SMART HELP




Note: When a Movie Rating is selected (✓) all higher level ratings are automatically blocked (although each individual Movie Rating can be manually selected and turned On or Off as desired). Programs with lower than the selected rating level are allowed for viewing or unblocked.

CONTENT ADVISORY PARENTAL GUIDELINES

Parental Guidelines can be even more defined and specific in the degree and extent of material parents may allow for TV program viewing. Sub-settings for Language, Violence, and other blocking factors can be manually switched On or Off for use within the major Parental Guideline categories (TV-Y7, TV-PG, etc.).

BEGIN

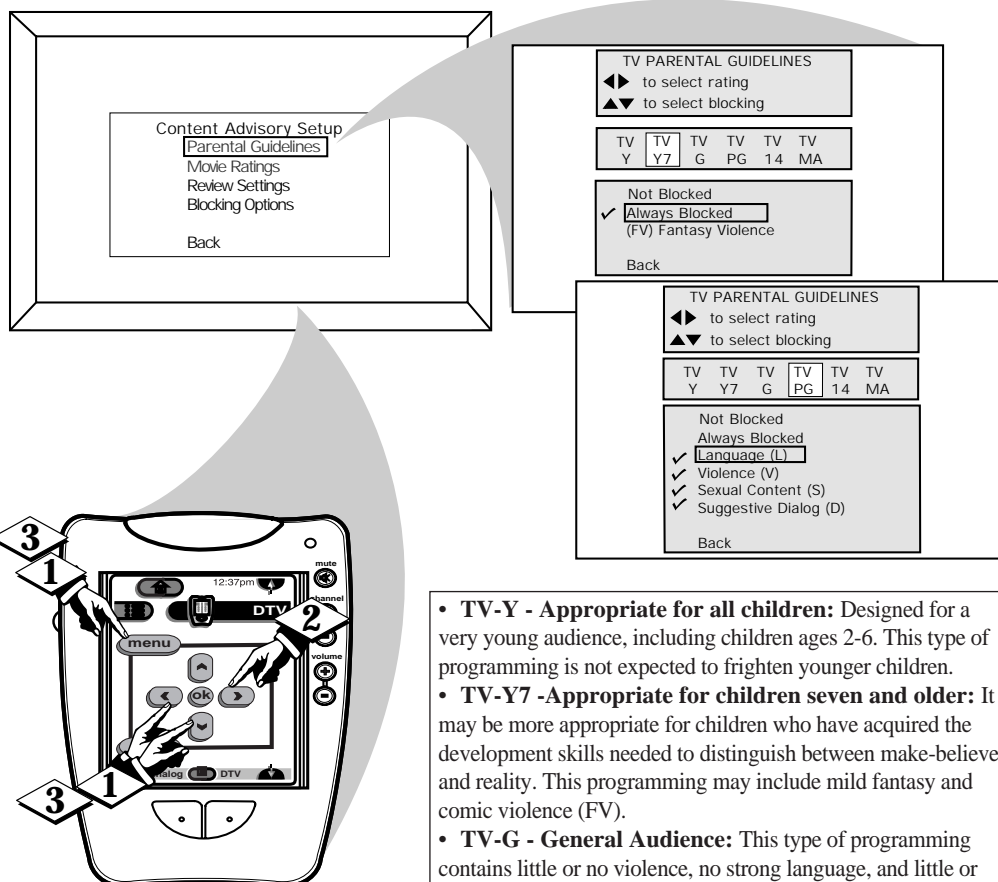
1 Select the PARENTAL GUIDELINES Menu option.

With CONTENT ADVISORY Menu on screen, move the RED highlight with the MENU  buttons. Then press the MENU (or ok) button.

2 Press the MENU to highlight and select the desired PARENTAL GUIDELINE rating level (TV-Y, TV-Y7, etc.).

3 Press the MENU and MENU (or ok) buttons to Block the selected Parental Guideline category (or to set other individual blocking feature items available within that Guideline category (L, V, S, D, etc.) as desired).

Note: Selecting "ALWAYS BLOCKED" (or individually adjusting the L, V, S, D settings) for any one rating will set all other higher level ratings to be automatically blocked as well.



- **TV-Y - Appropriate for all children:** Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.
- **TV-Y7 - Appropriate for children seven and older:** It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).
- **TV-G - General Audience:** This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.
- **TV-PG - Parental Guidance suggested:** This type of programming contains one or more of the following: Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).
- **TV-14 - Unsuitable for children under 14:** This type of programming contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).
- **TV-MA - Mature audience only:** This type of programming contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude indecent language (L).

- **(V) - Violence**
- **(S) - Sexual situations**
- **(L) - Language**
- **(D) - Inappropriate dialogue**
- **(FV) - Fantasy Violence** may frighten children under seven. Some cartoons may have this rating. Available in the TV-Y7 category only.

SMART HELP



The TV-Y7; TV-PG; TV-14; and TV-MA guidelines also include customized settings for various additional items such as V (violence), S (sexual situations), L (coarse language), D (suggestive dialogue), and FV (fantasy violence). These additional settings are category specific and can be individually selected for use as desired.



CONTENT ADVISORY BLOCKING OPTIONS

The Content Advisory system also has “Blocking Option” controls which can be used to deny viewing access for channel programs and movies even when they are “unrated”, or contain “no rating” information as broadcasted.

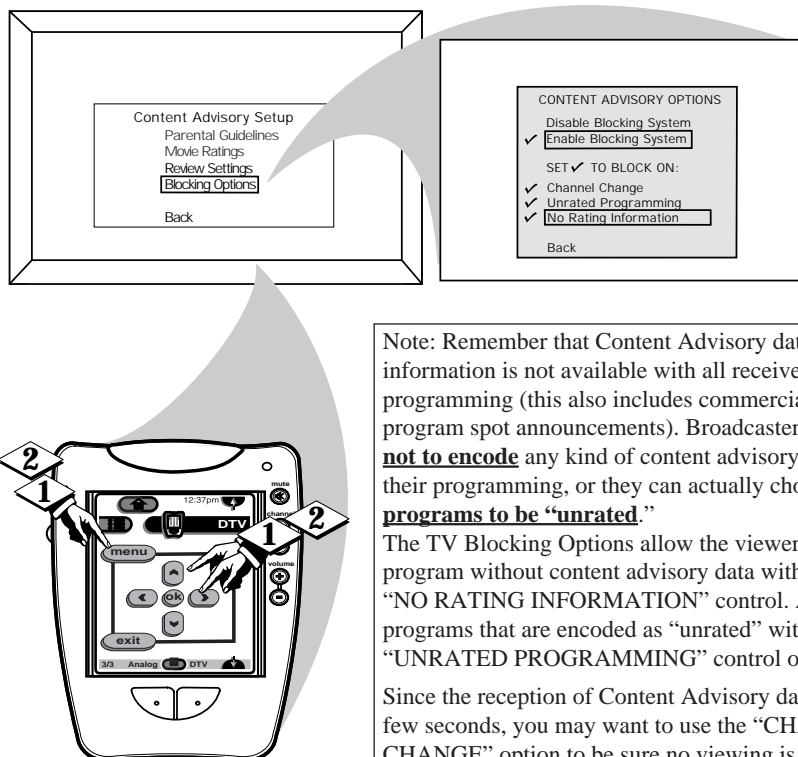
BEGIN

1 Select the **BLOCKING OPTIONS** Menu control.

With CONTENT ADVISORY Menu on screen, move the RED highlight with the MENU buttons. Then press the MENU (or ok) button.

2 Press the MENU and MENU (or ok) buttons to turn the Blocking System On (highlight and select ENABLED). Then use the remote Menu buttons to select the desired programming and information blocking options.

Please refer to Note shown with this page section for details on “unrated” and “no rating” program control options.



Note: Remember that Content Advisory data or encoded information is not available with all received TV programming (this also includes commercials, and other program spot announcements). Broadcaster’s can decide **not to encode** any kind of content advisory ratings with their programming, or they can actually choose to **encode programs to be “unrated.”**

The TV Blocking Options allow the viewer to block any program without content advisory data with the use of its “NO RATING INFORMATION” control. And to block programs that are encoded as “unrated” with its “UNRATED PROGRAMMING” control option.

Since the reception of Content Advisory data can take a few seconds, you may want to use the “CHANNEL CHANGE” option to be sure no viewing is allowed during blocked program channel changes. This can eliminate the display of a few seconds of undesirable video on the TV, or receiving scenes from a Ratings blocked channel source.

CONTENT ADVISORY REVIEW SETTINGS

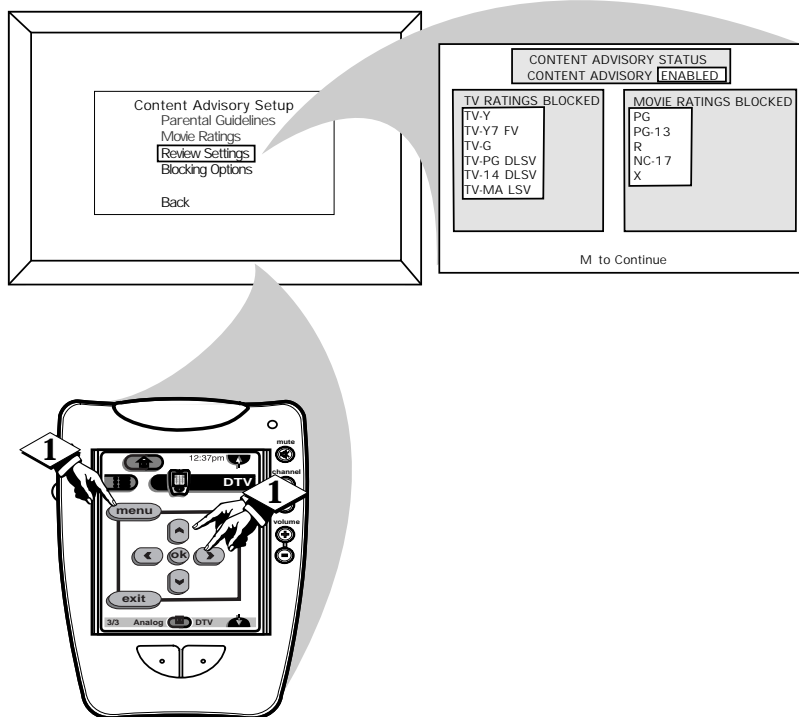
Use the Review Settings control to quickly check the status for Content Advisory system Parental Guidelines and Movie Rating “Blocked” program levels.

BEGIN

1 Select the **REVIEW SETTINGS** Menu option.

With CONTENT ADVISORY Menu on screen, move the RED highlight with the MENU buttons. Then press the MENU (or ok) button.

The TV screen will display the current Parental Guideline and Movie Ratings Blocked program settings. Content Advisory system status will also be shown (Enabled -On, or Disabled - Off).





REMOTE CONTROL ATSC DIGITAL FEATURES

DIGITAL TV MODE

The Remote Control contains touchscreen displays for “DTV” related controls. Use the remote’s touchscreen buttons to access and adjust the DPTV for dedicated ATSC mode features, as well as perform on-screen Menu adjustments and select other program functions.

Note: For battery installation and other details on the initial use of the remote control also refer to the HD6400W Quick Use guide included with your DPTV.

(BEGIN)

1 Gently tap the remote touchscreen with your finger to display its control panel for use.

Be sure “TV” is selected for the current device tab item category.

2 Press the “DTV” button on the remote to ensure ATSC mode commands are sent from the remote.



SMART HELP

Due to the amount of optional component and feature uses available with the remote’s Device Reference and Learn Code lists, please also refer to the separate full-use Remote Control Owner’s Manual for complete details on its function and operations.

Alternate Audio preference: English

* The “alt(ernate) audio” button on the remote allows the user to select a language preference for multilingual or alternate language audio track programs that may be received for DTV viewing. (English is the default language setting.)

When digital broadcast material is received which contains multiple language soundtracks the DPTV will identify, find, and then select the preferred alternate audio language for sound playback. If the selected language preference is not available within the received program material, the default audio language is then selected.

alternate audio*
Press to cycle through the available audio language tracks for the current DTV program. (See the additional alternate audio section information shown below.)

power button
Press to turn the DPTV ON and OFF.

status button
Press to see the current channel number on the DPTV screen. Also press to clear the DPTV screen after control adjustments.

dtv freeze
Press to freeze or stop the current picture on the DPTV screen. Program sound will continue to play. Repress the freeze button, or wait for a 60-second time out, to return to live program action.

mute button
Press to turn the sound OFF on the DPTV. Press again to return the sound to its previous level.

channel scan buttons
Press to scan up (+) or down (-) through any ATSC programmed channel numbers.

volume buttons
Press to adjust the DPTV sound level up (+) and down (-).

ext input button
Press to select the auxiliary input connections available on the rear of the DPTV (analog NTSC - AUX1/2/3; Monitor -VGA; External High Definition - EXT HD, etc.).

number buttons
Press two number buttons to select single digit “major” DTV channels. Use a four-digit channel entry to select ATSC system “sub-channel” programs, for example: press “0, 6, 0, 1” for sub-channel 6.01. (See page 5 in the HD6400W Quick Use guide for details on the use and selection of sub-channels.)

sleep button
Press to set the DPTV to automatically turn itself OFF. (15 minutes to 2 hours ahead.)

A/CH button
Press Alternate Channel (A/CH) to select previously viewed channels. Enter the desired two channel numbers (from the remote’s number buttons), and then press A/CH to toggle back and forth between the two channel selections.

exit button
Press to clear the DPTV screen after control adjustments. Also press to see the current channel number on the DPTV screen.

scroll arrows
Press to move to the next (or previous) page of remote controls. The touchscreen will display the current control screen’s page number, and the total number of pages available for the selected device (1/3; 2/3; etc.).

menu buttons
Press the Menu (or ok) button to show on-screen controls. Press M ▲ or ▼ buttons to move up (or down) the list of DTV controls. Press the (M) ◀ or ▶ buttons to make adjustments to the selected controls.



VGA/SVGA/HDCOMPONENT

Another function of the DPTV is for the connection and use of Personal Computers (PCs), and other High Definition (HD) digital source equipment, through the DPTV's Monitor inputs and display mode. Dedicated Audio Input jacks (located on the rear of the DPTV) are also paired to the external source Monitor Video Inputs (VGA and HD Component Video In) for audio playback connections as well.

For example: To connect a Philips DVX8000 Multimedia Home Theater (MMHT) for monitor mode display use on the DPTV:

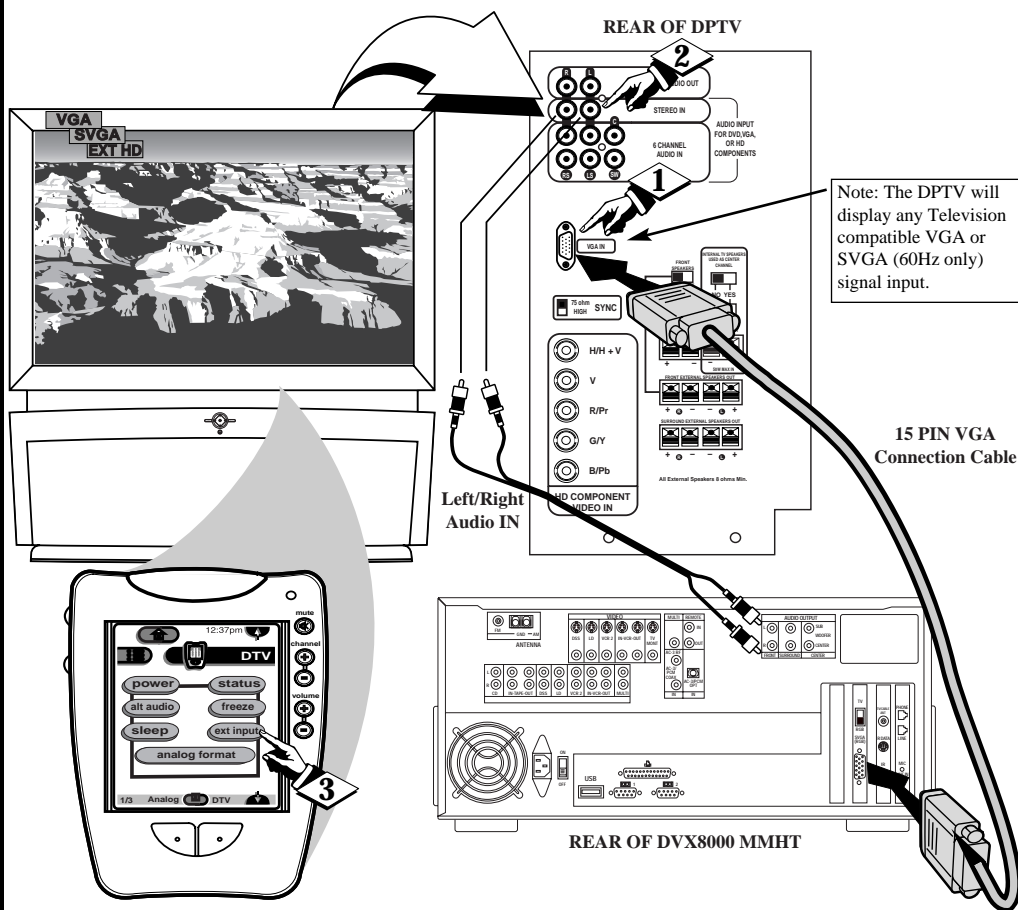
BEGIN

- 1 Connect a 15 pin VGA signal cable (optional) from the VGA (or SVGA) jack on the select auxiliary equipment (example: DVX8000 MMHT) to the VGA Input jack on the DPTV.
- 2 Connect the Left/Right STEREO IN jacks on the DPTV to the (L/R) Audio Output jacks (labeled Front) on the DVX8000 MMHT.
- 3 Press the "ext input" button on the remote (or the Source button on the DPTV's local keyboard) to select the required Monitor mode. (VGA, SVGA, and EXT HD Monitor modes are available for selection with the "ext input" or Source buttons.)
- 4 Use the DVX8000 MMHT as the video (and/or audio) playback source for material to be displayed on the DPTV.

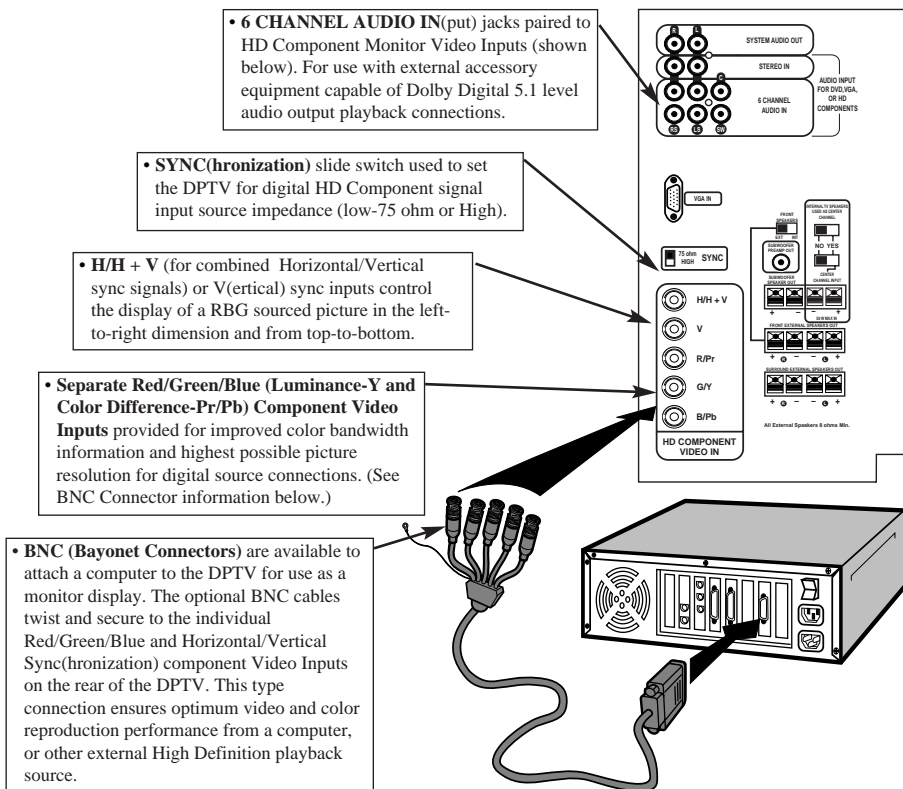


SMART HELP

Note: The DPTV's video display may temporarily appear misconverged during the initialization of certain VGA input connected PC programs (i.e., DOS). Once the PC program has completed its "bootup" phase, normal signal level processing will reoccur and the DPTV display will return to normal.



HD COMPONENT VIDEO IN





MONITOR FEATURES MENU CONTROLS

MONITOR MENU CONTROLS

The Monitor Menu feature controls are to aid you in setting up the DPTV for the best in display image quality. Generally, the Monitor feature controls cover the basics in color and video image screen adjustments. A variety of Monitor Audio Input controls are also available for various speaker trim adjustments (dependent upon whether the externally supplied Monitor input source is capable of 2-channel stereo or 6-channel digital sound replay).

BEGIN

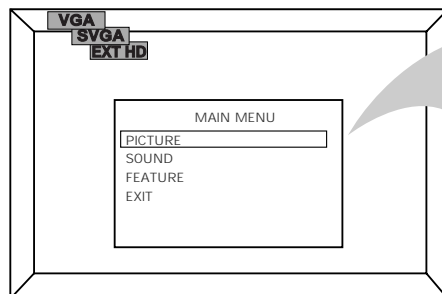
- 1 Press the “ext input” button on the remote’s TV touchscreen, or SOURCE on the local keyboard, to place the DPTV in the desired monitor display mode (VGA, SVGA, EXTHD).
- 2 Press the MENU button to display the Monitor Feature Control Menu.
- 3 Press the (M) Up/Down ▲▼ Arrows on the remote’s touchscreen display to highlight items within the Monitor control screen list.
- 4 Press the Left/Right ◀▶ Arrows on the remote to adjust the selected on-screen feature control.
- 5 Press the “exit” button to clear the screen when complete.



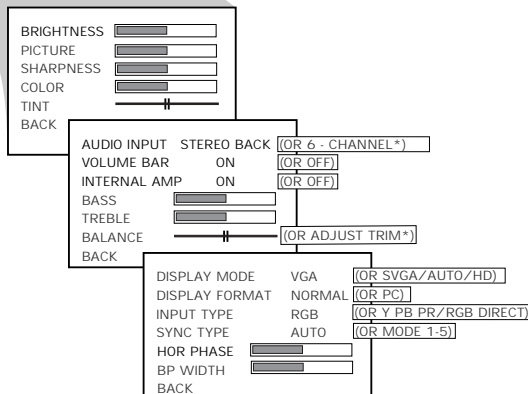
SMART HELP



Certain barscale Monitor Feature Menu adjustments (such as Brightness, Picture, etc.) will display separate control panel screens for individual settings. Repress the Menu button (on the remote or local keyboard) to return the DPTV to the Monitor Menu when control adjustments are complete.



• **Note:** The list of Monitor Menu features (and their individual control settings) will change or readjust according to the capabilities of the selected Display Mode (VGA, SVGA, etc.).



- Use the **Brightness** and other Monitor picture features (such as Picture, Sharpness, etc.) to adjust overall DPTV screen intensity for optimum light/dark screen areas and shading details.
- Turn the **Volume Bar Sound** Menu control ON to display the volume level settings for external audio sourced material on the DPTV screen.
- Select the **Bass/Treble/Balance** Sound Menu controls to adjust low/high frequency sound and speaker balance for external input audio source material played through the DPTV’s audio system.
- Use the **Adjust Trim (Left, Right, Center, Subwoofer, Surround Left, Surround Right)** Sound Menu controls when adjusting sound for a 6-channel audio input received externally for playback through the DPTV’s Monitor display operating mode.
- Use the **Display Mode, Format, and Input** Feature Menu controls to set the DPTV for the type of external monitor display mode source (VGA, AUTO, SVGA, EXT HD); the DPTV’s display screen format used (PC, NORMAL); and input type signal received (RGB; Y Pb Pr; RGB-Direct).
- **Additional Sync Type, Horizontal Phase, Back Porch Width** Feature Menu controls can be used to adjust for color shifts, black level, and various other display screen imagery.



Please make these simple checks before calling for service. These tips can save you time and money since charges for DPTV installation and adjustment of customer controls are not covered under your warranty.

No Power

No Picture or Autoprogramming Difficulties

No Sound

Remote Does Not Work

DPTV Displays Wrong Channel or incorrect program

CAUTION: A video source (such as a video game, Compact Disc Interactive - CDI, or TV information channel) which shows a constant non-moving pattern on the DPTV screen, can cause picture tube damage. When your DPTV is continuously used with such a source the pattern of the non-moving portion of the game (CDI, etc.) could leave an image permanently on the picture tube. When not in use, turn the video source OFF. Regularly alternate the use of such video sources with normal DPTV viewing.

- Check the DPTV power cord. Unplug the DPTV, wait 1 minute for the unit to reset, then reinsert plug into outlet and push POWER button again.
- Check to be sure power outlet is not on a wall switch.

- Check for proper ATSC or NTSC antenna connections on the rear of the DPTV. Are they properly secured to the appropriate antenna plug on the DPTV?
- For ATSC Autoprogram check DTV Setup for proper Full Installation option. Use "Without Program and System Info" selection for initial digital station programming.
- Check the SOURCE, or "ext input" control on the remote, for the correct operating mode for the DPTV (ATSC, NTSC, Auxiliary Inputs, Monitor, etc.).
- Check the CLOSED CAPTIONS control. Some TEXT modes could block the screen.

- Check the VOLUME and MUTE buttons on the DPTV and remote.
- Check the INTERNAL SPEAKERS CENTER CHANNEL INPUT switches (on rear of DPTV) for proper position. Use the "NO" switch position for internal DPTV cabinet speaker routing; and "YES" position when the DPTV speakers are intended as Center Channel speakers within an external amplifier supplied Surround Sound system.
- If attempting auxiliary equipment hook-ups, check audio jack connections and ensure auxiliary equipment is on and in the proper operating modes.
- Check FRONT SPEAKERS switch (on rear of DPTV). Place in INT(ernal) position for sound playback through the DPTV's internal speaker system. EXT(ernal) for optional external speaker playback connections using the Front and Surround Speakers Out(put) terminals on the DPTV.

- Check for correct battery placement and position in remote battery compartment. Replace with AA Heavy Duty (Zinc Chloride) or Alkaline batteries if necessary.
- Check the Device Tab button on the remote for correct selected device ("TV" to operate the DPTV). Refer to the separate Remote Owner's Manual for complete details on its operation and use.
- Press the remote's "analog TV" or "DTV" touchscreen button to properly select and send remote commands to the desired NTSC or ATSC DPTV mode of operation.

- Check and be sure DPTV is in the proper operating mode (ATSC, NTSC, or Monitor).
- Repeat channel selection. In ATSC mode allow time for DTV channel acquisition and display process to take place. For ATSC sub-channel selections be sure to enter the desired four-digit channel number using the remote.

Note: The DPTV is equipped with protective circuitry that shuts the unit off in case of moderate power surges. Should this occur turn the DPTV back on by pressing the POWER button once or twice, or unplug and then replug the power cord at the AC outlet. This feature is NOT designed to prevent damage due to high power surges such as those caused by lightning, which is not covered by your warranty.

Cleaning and Care

- To avoid possible shock hazard be sure the DPTV is unplugged from the electrical outlet before cleaning.
- When cleaning the DPTV screen take care not to scratch or damage the screen surface (avoid wearing jewelry or using anything abrasive, do not use household cleaners). Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Specially designed screen cleaning kits are also available which contain anti-static cleaners and cloths designed for use with the DPTV screen. If interested, ask your dealer or call our toll-free Accessory Parts ordering number 1-800-851-8885.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool clear water and a mild soap or detergent. Use a clean dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the cabinet back.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.



Add/Delete Channels	6, 14-15, 35, 45, *Q/U-2, 5, 6
Audio Controls.....	25-28, 38-41, *Q/U-2, 4, 5, 6, 7
Audio/Video Inputs.....	30-34, 38-40, 53 *Q/U-2, 7
Automatic Programming	6, 35, *Q/U-5, 6
Auxiliary Inputs	30-33, 38-40, 53 *Q/U-2, 7
AVL (Automatic Volume Limiter).....	28
Balance	25, 41, 54
Bass.....	25, 41, 54
Battery Installation	*Q/U-3
Cable TV Connections/Settings	13, *Q/U-5, 6
Channel/Time Display	17, *Q/U-6
Channel Memory.....	14-15, 35, 45, *Q/U-2
Channel Label.....	18
Cleaning and Care	55, *Q/U-3
Clearview	8
Clock Setting	6, 16
Closed Captioning	12, 44, *Q/U-5, 6
Color Controls	8, 36, *Q/U-5, 6, 7
Convergence	9, 37, *Q/U-5
Content Advisory	19-24, 46-51
Controls DPTV	*Q/U-2, 4, 6
Controls Remote.....	29, 52, *Q/U-3, 4, 6, 7
Dolby Digital.....	5, 39-40, 42, *Q/U-1, 2, 8
DVD Connections.....	33
Exit	*Q/U-2, 4, 6
Features.....	5, *Q/U-1
First Time Set Up.....	6-7, 35, *Q/U-5, 6
Glossary DPTV Terms	57

High Definition Component Inputs.....	53-54, *Q/U-2, 7
Inputs (Audio and Video)	30-34, 39-40, 53
LCD Remote Control	29, 52, *Q/U-3, 4, 6, 7
Menu.....	*Q/U-2, 4, 6, 7
Menu Arrow Buttons.....	*Q/U-4, 6, 7
Monitor Controls	54, *Q/U-2, 7
Parental Control	19-24, 46-51
Programming Channels	6, 35, *Q/U-2
Requesting Service	55, 58-59, 60
Safety/Precautions	2, 3, 55, *Q/U-1
Second Audio Program (SAP).....	26
Sensor Remote.....	*Q/U-2
Sleep Timer.....	29, 52
Smart Picture	10-11
SPDIF	40, *Q/U-2
Speaker Switches	39-40, 42, *Q/U-2
Status Button.....	29, 52
Surround Sound.....	38, 39-40, 42-43
SVGA.....	53-54, *Q/U-2, 7
System Audio Out	34, 40, *Q/U-2
Time/Channel Display	17, *Q/U-2
VCR/DPTV Connections	30-32
Tips for Service	55, 58-59
Treble.....	25, 41, 54
VGA	53-54, *Q/U-7
Volume Display	27
Volume Limiter	28, 41
Warranty	60

* Information contained in DPTV Quick-Use (Q/U) Guide - page listed

Regulatory Notices - Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. this equipment generates, uses, and can radiate radio frequency energy and , if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications -

The FCC requires the user to be notified that nay changes or modifications made to this device that are not expressly approved by Philips Consumer Electronics may void the user's authority to operate the equipment.

Cables -

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Canadian Notice -

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Avis Canadien -

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.



Audio/Video Inputs * Located on the rear of the DPTV these connectors (RCA phono type plug) are used for the input of audio and video signals. Designed for use with VCRs (or other accessories) in order to receive higher picture resolution and offer sound connection options.

Aspect Ratio * The proportions of a rectangular display screen. NTSC television has a 4:3 ratio; HDTV is 16:9.

ATSC * Advanced Television Systems Committee established by the Federal Communications Commission to set standards for digital television.

Coaxial Cable * A single solid antenna wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75 Ohm input found on the Television or VCR.

Display * An on screen message or graphics that help the user operate and adjust DPTV feature controls. See On Screen Displays (OSD).

Dolby Digital * A digital 6-channel compression and surround sound audio standard developed by Dolby Labs Inc. (also known as 5.1.)

DPTV * Digital Projection Television comprised of ATSC, NTSC, and Monitor modules.

DTV * The broadly defined term used to describe the new digital television system adopted by the Federal Communications Commission (FCC) in December 1996.

HDTV * High Definition Television which offers approximately twice the vertical/horizontal resolution of NTSC video, and sound quality approaching that of compact disc. (Usually taken to mean a picture of 1920 x 1080 pixels in a 16:9 aspect ratio.)

LED * Light Emitting Diode or indicator.

Major Channel * The RF transmitted channel on which an ATSC digital station is broadcast. (Also referred to as virtual channel.)

Menu * An on-screen listing of feature controls shown on the DPTV screen that are made available for user adjustments.

MPEG * Motion Picture Experts Group and the video compression formats devised for transmission of digital broadcasts.

Multichannel Television Sound (MTS) * The broadcast standard that allows for stereo sound to be transmitted with the TV picture.

NTSC * National Television Standards Committee format devised for TV broadcasting signals in the 1940s (525 lines; 30Hz.)

On Screen Displays (OSD) * Refers to the wording or messages generated by the DPTV to help the user with specific feature controls (color adjustment, programming, etc.).

Pre-Amplifier * The control center of a hi-fi system. Not only amplifies source inputs, but also allows for source selection, volume, tone, balance and all other controls that affect the sound.

Programming * The procedure of adding or deleting channel numbers into the DPTV's memory circuits. In this way the DPTV "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers.

PSIP * Program and System Information Protocol.

PTV * Projection Television (Rear and/or Front projection design systems are available.)

Remote Sensor Window * A window or opening found on the DPTV control panel through which infrared remote control command signals are received.

RF * Radio Frequency or modulated signal design used as the carrier for television broadcasts.

RGB * Red, Green, Blue color component inputs used for connection purposes with personal computers (PCs) and other high definition video devices.

Second Audio Program (SAP) * Another or additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. A monaural soundtrack included within the recorded or video signal (usually containing a second language translation for the displayed programming.)

SDTV * Standard Definition Television is a digital television transmission, but with approximately the picture quality and aspect ratio equivalent to NTSC video.

Status * Allows the user to quickly confirm what channel number is currently being viewed. Status can also be used to clear the DPTV of on-screen displays or information (rather than waiting for the displays to "time out" or automatically disappear from the screen).

Subchannel * A complete digital channel number is composed of both a major and minor (sub-) channel number. Located within the "major" channel's transmitted signal the "minor" channel can be used and selected for additional programming.

Subwoofer * A speaker designed for audio playback of only the lowest-frequency notes (under 100 Hz.)

SVGA * Super Video Graphics Array

S-Video Input * Allows direct connection of high-resolution video sources, such as a Super VHS videocassette recorder, Laser Disc player, etc. Provides improved picture resolution, sharpness, and clarity.

Twin Lead Wire * The more commonly used name for the two strand 300 Ohm antenna wire used with many indoor and outdoor antenna systems. In many cases this type of antenna wire requires an additional adapter (or balun) in order to connect to the 75 Ohm Input terminals designed into the more recent Televisions and VCRs.

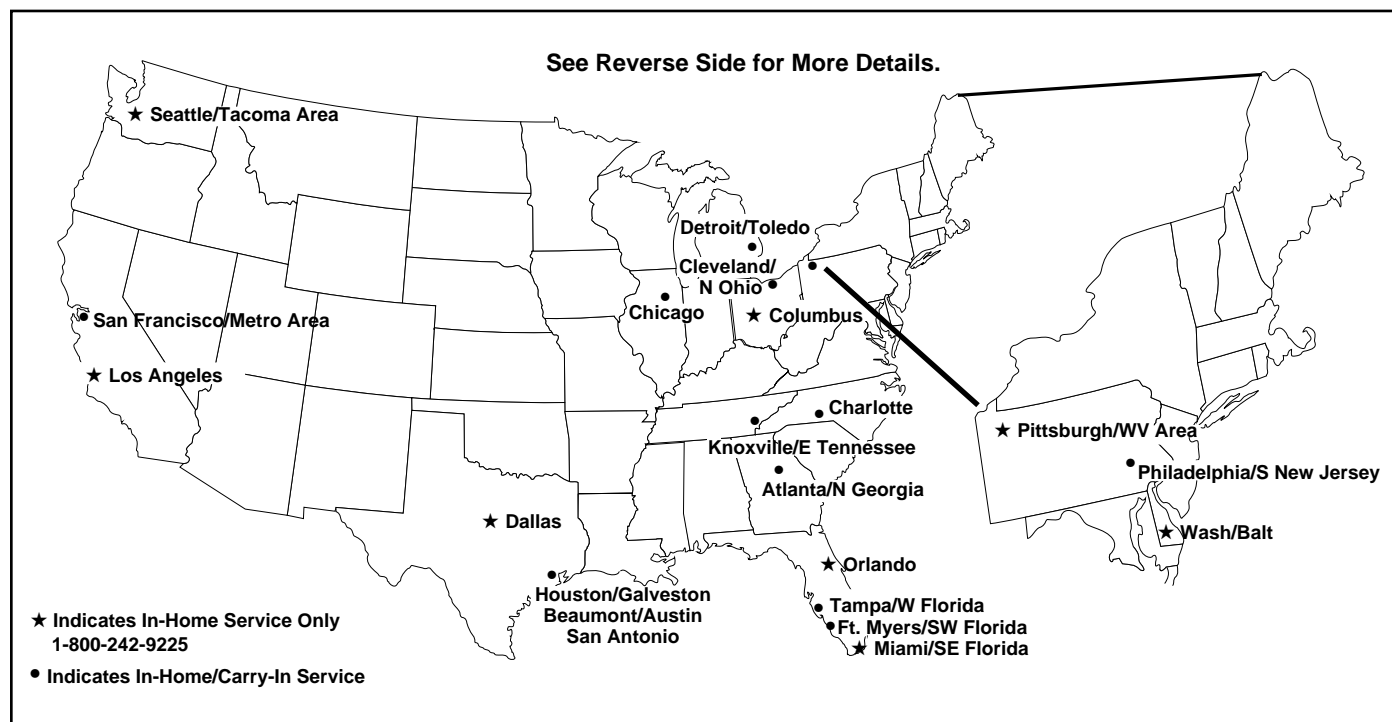
Variable Audio Output * An adjustable audio output which allows for volume variations at the source.

VGA * Video Graphics Array

YUV * Component video signals consisting of Y luminance and normalized color differences U and V.

Philips Consumer Electronics Company

Factory Service Center Locations



NOTE: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

NOTA: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d'achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

NOTA: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product

Please contact Philips at

1-800-661-6162 (French speaking)

1-800-363-7278 (English speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile

Veuillez contacter philips à:

1-800-661-6162 (Francophone)

1-800-363-7278

En el Canadá

Cómo recibir servicio eficiente para su producto, en persona, por correo o a domicilio

Favor de comunicarse con Philips al:

1-800-661-6162 (francófono)

1-800-363-7278 (anglófono)

QUALITY SERVICE IS AS CLOSE AS YOUR TELEPHONE! SIMPLY LOOK OVER THE LIST BELOW FOR THE NUMBER OF A FACTORY SERVICE CENTER NEAR YOU. YOUR PRODUCT WILL RECEIVE EFFICIENT AND EXPEDIENT CARRY-IN, MAIL-IN, OR IN-HOME SERVICE, AND YOU WILL RECEIVE PEACE OF MIND, KNOWING YOUR PRODUCT IS BEING GIVEN THE EXPERT ATTENTION OF PHILIPS' FACTORY SERVICE. AND, IF THE PHONE NUMBER LISTED FOR YOUR AREA IS LONG DISTANCE, CALL 1-800-242-9225 FOR FACTORY SERVICE.

COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA PARA SU PRODUCTO A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO. MAS DE 600 SITIOS POR TODO EL PAIS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RADIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

GEORGIA Philips Factory Service of Georgia 200 N. Cobb Pkwy., Suite 120 Marietta, GA 30062 (770) 795-0085	CENTRAL U.S.A. Philips Factory Service Central US 950 Keynote Circle Brooklyn Heights, OH 44131 (216) 741-3334	ILLINOIS Philips Factory Service of Illinois 1279 W. Hamilton Pkwy. Itasca, IL 60143 (630) 775-0990
FLORIDA Philips Factory Service of Florida 1911 US Highway 301 North Tampa, FL 33619 (813) 621-8181	MICHIGAN Philips Factory Service of Michigan 25173 Dequindre Madison Heights, MI 48071 (248) 544-2110	TENNESSEE Philips Factory Service of East Tennessee 6700 D Papermill Rd. Knoxville, TN 37919 (423) 584-6614
WESTERN U.S.A. Philips Factory Service Western Region 681 East Brokaw Rd. San Jose, CA 95112 (408) 436-8566	DALLAS AREA Philips Factory Service of Dallas 415 N. Main Street, #107 Euless, TX 76040 (713) 682-3990	MID-ATLANTIC Philips Factory Service Mid-Atlantic 352 Dunks Ferry Rd. Bensalem, PA 19020 (215) 638-7500
TEXAS Philips Factory Service of Texas 1110 N. Post Oak Rd., Suite 100 Houston, TX 77055 (713) 682-3990		

LIMITED WARRANTY

DIGITAL PROJECTION TELEVISION

Two Years Free Labor

Two Years Free Service on Parts

Two Years Free Service on Cathode Ray Tube Parts / 30 days Free Service on Projection TV Screen

This product can be repaired in-home.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product for two years thereafter (30 days for the digital projection TV screen), all parts will be repaired or replaced, and labor and transportation are free. After two years from the day of purchase, you pay for the replacement or repair of all parts except the "Clear-Vu" lens (which is guaranteed against manufacturer's defects for the life of the product), and for all labor and transportation charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE...

Repair must be performed by an authorized service center or a factory service center. *If you do not live near a factory service center, contact your dealer.* If your dealer is an authorized service center, he will arrange repair. If your dealer is not an authorized service center, he will direct you to the authorized service center engaged by him to service the products he sells.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

IF YOU HAVE QUESTIONS IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking)

1-800-363-7278 (English Speaking)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Service Company, P.O. Box 2976, Longview, Texas 75606, (903) 242-4800

1-800-531-0039